

**SONY®**

PORTABLE VIDEOCASSETTE RECORDER

# **PVV-3 PVV-3P**

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## **SERVICE MANUAL**

Vol. 2 (1st Edition)

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**BETACAM SP™**

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## LITHIUM BATTERY

Replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.

### WARNING

Battery may explode if mistreated.  
Do not recharge, disassemble or dispose of in fire.

### Note

Keep the lithium battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.

### ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig  
håndtering.  
Udskiftning må kun ske med batteri af samme  
fabrikat og type.  
Levér det brugte batteri tilbage til leverandøren.

### ADVARSEL

Lithiumbatteri - Eksplosjonsfare.  
Ved utskiftning benyttes kun batteri som  
anbefalt av apparatfabrikanten.  
Brukt batteri returneres  
apparatleverandøren.

### VARNING

Explosionsfara vid felaktigt batteribyte.  
Använd samma batterityp eller en likvärdig typ  
som rekommenderas av apparattillverkaren.  
Kassera använt batteri enligt gällande  
föreskrifter.

### VAROITUS

Paristo voi räjähtää jos se on virheellisesti asennettu.  
Vaihda paristo ainoastaan laitevalmistajan  
suosittelemaan tyyppiin.  
Hävitä käytetty paristo valmistajan ohjeiden  
mukaisesti.

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## このマニュアルについて

本書はポータブルビデオカセットレコーダー PVV-3のサービスマニュアルVOL.2です。本書では、ブロックダイアグラム、マウント図、回路図、半導体、パーツリストを記載しています。

## 構 成

本書の構成を把握していただくために、全章の概略を以下に説明します。

### 第13章 BLOCK DIAGRAMS

オーバーオールブロック図、回路ブロックごとのブロック図を掲載しています。

### 第14章 SCHEMATIC DIAGRAMS AND BOARD LAYOUTS

全プリント基板の回路図およびパターンとシンボル図を掲載しています。

### 第15章 SEMICONDUCTOR PIN ASSIGNMENTS

使用半導体の外形および、概略の機能ブロックや、ピン名称を掲載しています。

### 第16章 SPARE PARTS AND OPTIONAL FIXTURES

分解図、電気部品リスト、梱包部品リスト、標準付属品リスト、治工具リストなどを掲載しています。

## Introducing this manual

This manual is the Service Manual Vol.2 of the Portable Videocassette Recorder PVV-3/3P.

This manual contains block diagrams, board layouts, schematic diagrams, semiconductor pin assignments and parts lists.

## Contains

The sections covered in the manual are summarized below to give you a general understanding of the manual.

### Section 13 BLOCK DIAGRAMS

Describes the overall block diagrams and the block diagrams for every circuit block.

### Section 14 SCHEMATIC DIAGRAMS AND BOARD LAYOUTS

Describes the schematic diagrams and board layouts for every circuit board and frame wiring.

### Section 15 SEMICONDUCTOR PIN ASSIGNMENTS

Describes the outlines, system block diagrams and pin assignments of semiconductors used in this equipment.

### Section 16 SPARE PARTS AND OPTIONAL FIXTURES

Describes the exploded views, electrical parts list, packing materials & accessories and optional fixtures.

## 関連マニュアル

本機には、この「サービスマニュアル VOL.2」の他に、下記のマニュアルが用意されています。

- オペレーションマニュアル（本機に付属しています）

部品番号：3-798-217-01

本機を実際に運用および操作するのに必要な情報を記載しています。

- サーマニュアル vol.1（本機に付属していません）

部品番号：9-977-615-11

本機の保守に関する情報と、部品交換および調整などのサービス情報を記載しています。

## Related manuals

In addition to this Service Manual Vol. 2, the following manuals are provided.

- **Operation Manual (Supplied with equipment)**

Part No. 3-798-217-21 (English)

3-798-217-31 (French)

3-798-217-41 (Germany)

3-798-217-51 (Italian)

Describes how to operate this equipment.

- **Service Manual Vol.1 (Not supplied with equipment)**

Part No. 9-977-613-11

Contains the maintenance information of this equipment, and the information on servicing such as the replacement of the parts and the adjustments.

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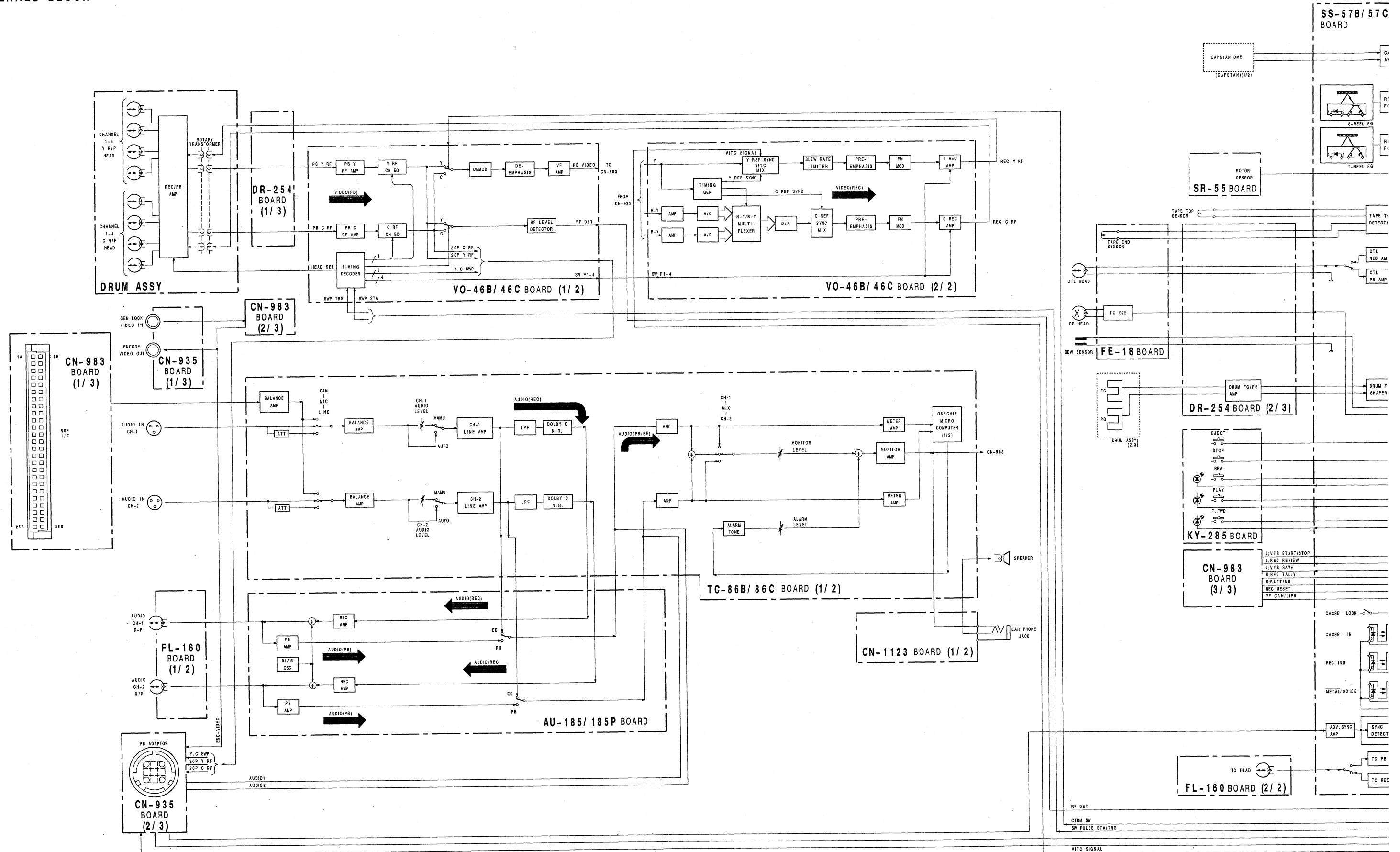
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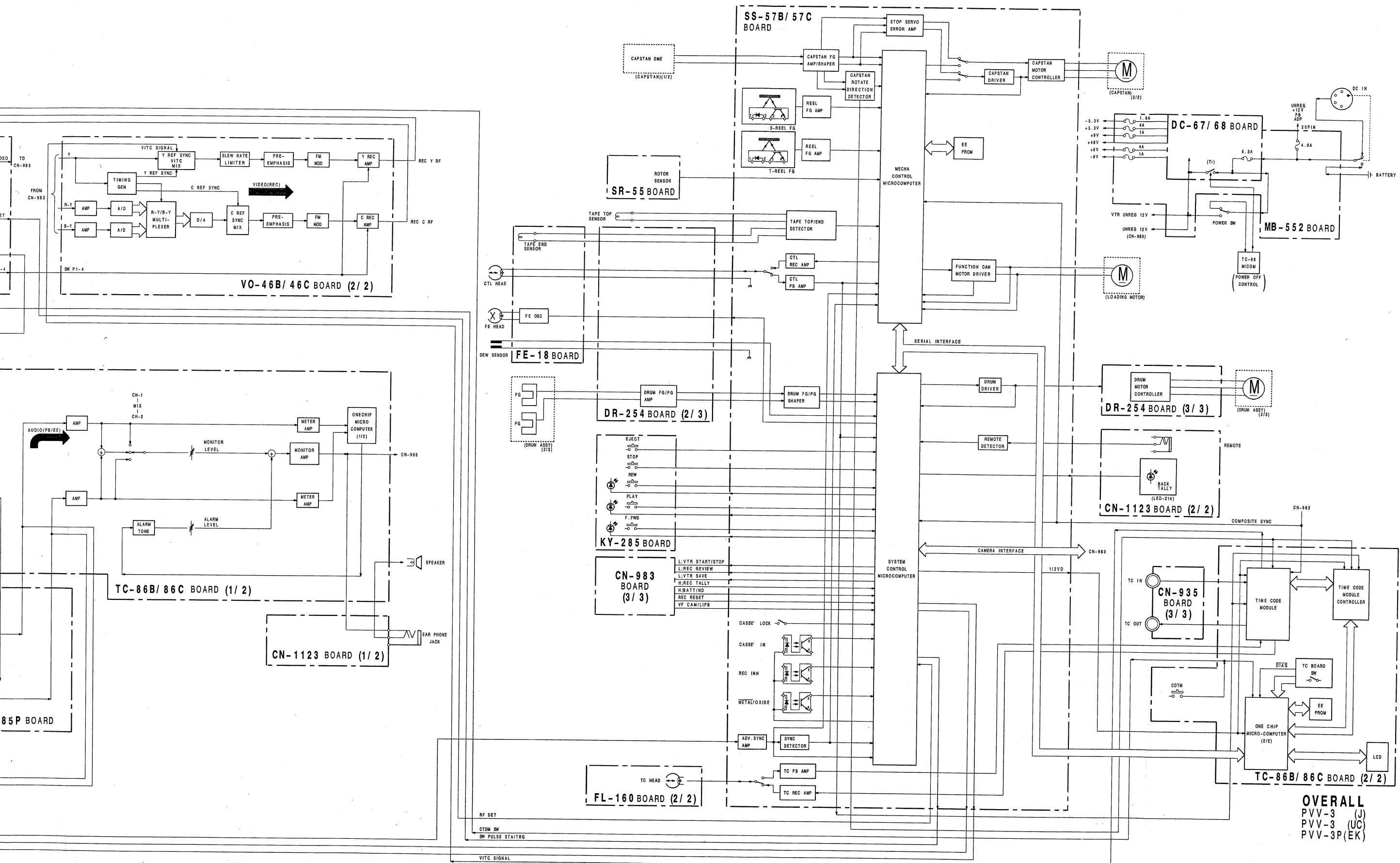
# SECTION 13 BLOCK DIAGRAMS

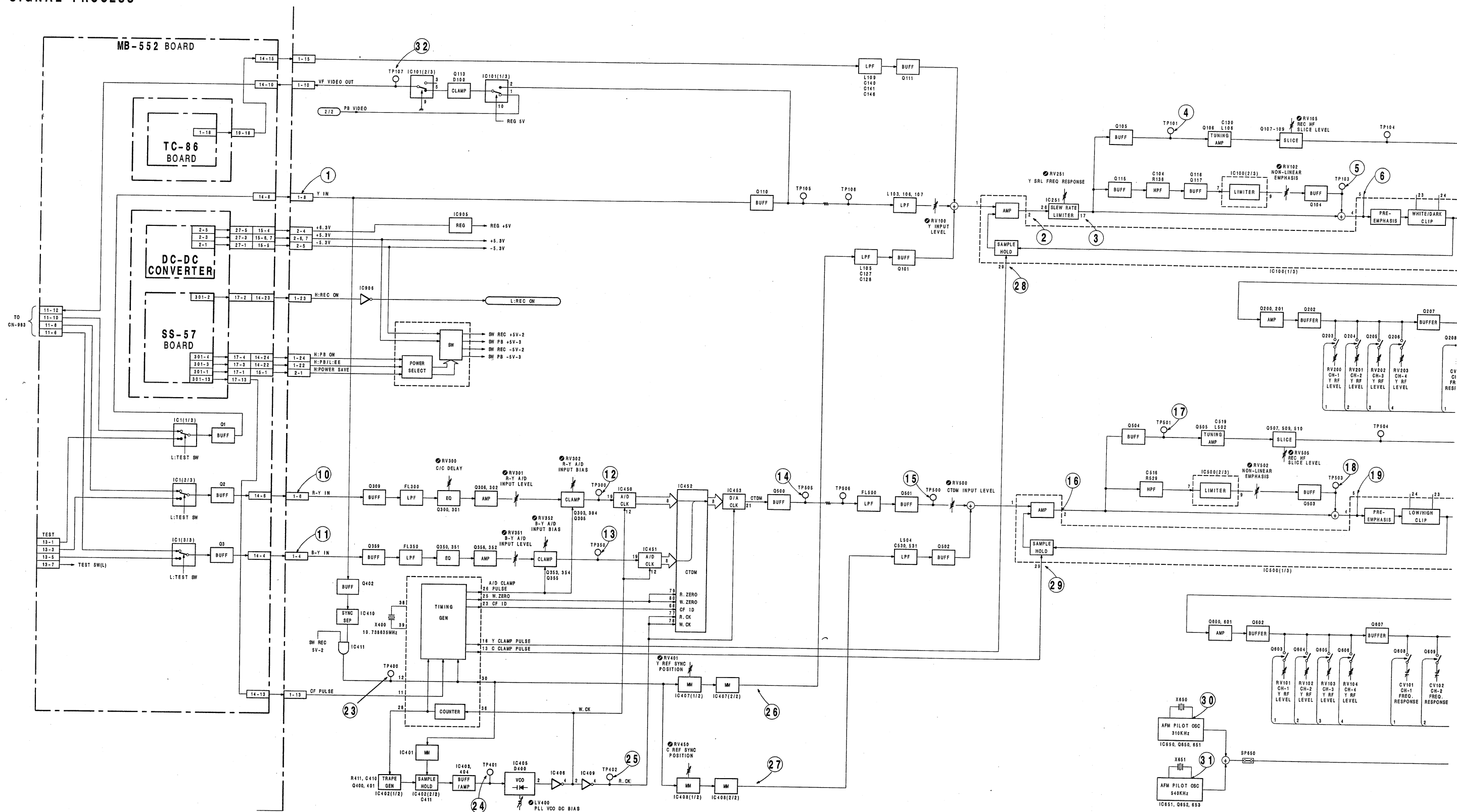
OVERALL BLOCK OVERALL BLOCK

OVERALL BLOCK

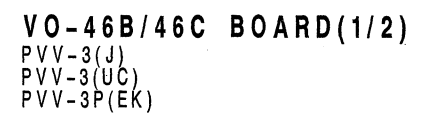


PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)





VIDEO BLOCK(1/2)



## VIDEO SIGNAL PROCESS

RECモード...信号発生器(テクトロニクスTSG-300または同等品)  
出力の75% COLOR BARSの記録状態。

PBモード.....アライメントテープCR5-1BのCOLOR BARS部分の  
再生状態。

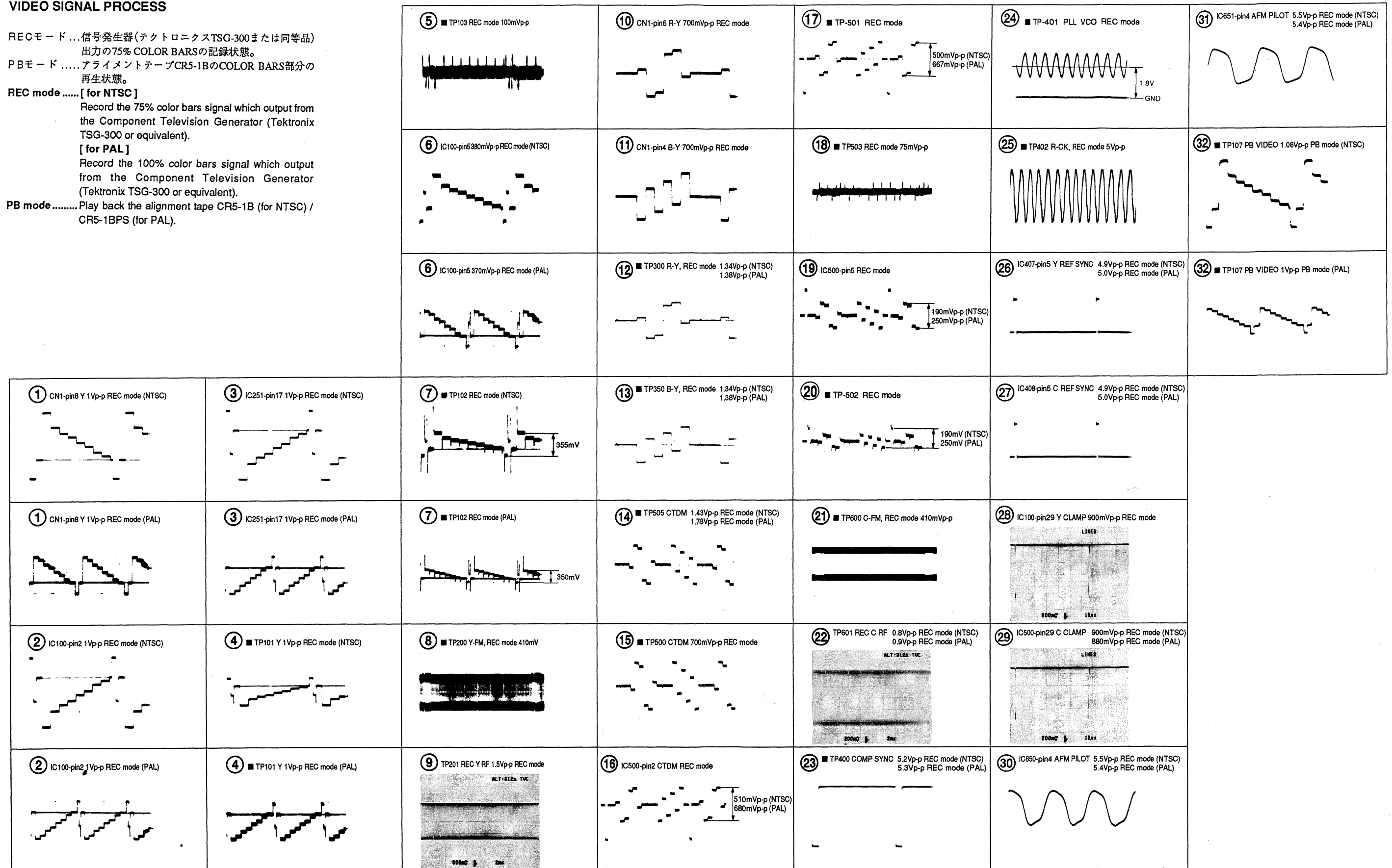
REC mode ..... [ for NTSC ]

Record the 75% color bars signal which output from  
the Component Television Generator (Tektronix  
TSG-300 or equivalent).

[ for PAL ]

Record the 100% color bars signal which output  
from the Component Television Generator  
(Tektronix TSG-300 or equivalent).

PB mode ..... Play back the alignment tape CR5-1B (for NTSC) /  
CR5-1BPS (for PAL).





VIDEO SIGNAL PROCESS

RECモード...信号発生器(テクトロニクスTSG-300または同等品)  
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REC mode ..... [ for NTSC ]  
Record the 75% color bars signal which output from  
the Component Television Generator (Tektronix  
TSG-300 or equivalent).

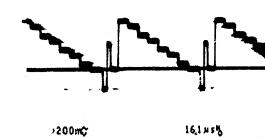
[ for PAL ]  
Record the 100% color bars signal which output  
from the Component Television Generator  
(Tektronix TSG-300 or equivalent).

PB mode ..... Play back the alignment tape CR5-1B (for NTSC) /  
CR5-1BPS (for PAL).

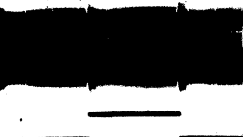
57 IC801-pin35 800mVp-p PB mode (NTSC)



57 IC801-pin35 800mVp-p PB mode (PAL)



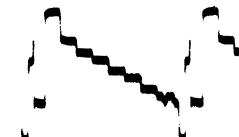
51 TP700 Y-RF 400mVp-p PB mode



55 IC801-pin12 DEMOD OUTPUT PB mode (NTSC)



58 IC801-pin37 520mVp-p PB mode (NTSC)



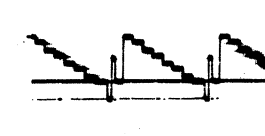
52 TP750 C-RF 400mVp-p PB mode



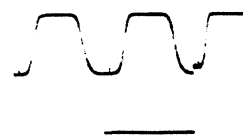
55 IC801-pin12 DEMOD OUTPUT PB mode (PAL)



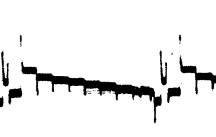
58 IC801-pin37 530mVp-p PB mode (PAL)



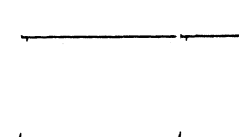
53 TP850 RF DETECT 4.9Vp-p REC PAUSE mode



56 IC801-pin40 230mVp-p PB mode (NTSC)



59 IC801-pin5 CLAMP PULSE 2.1Vp-p PB mode



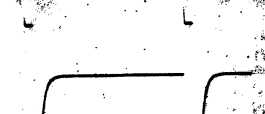
54 IC801-pin48 PB RF 190mVp-p PB mode (NTSC)  
240mVp-p PB mode (PAL)



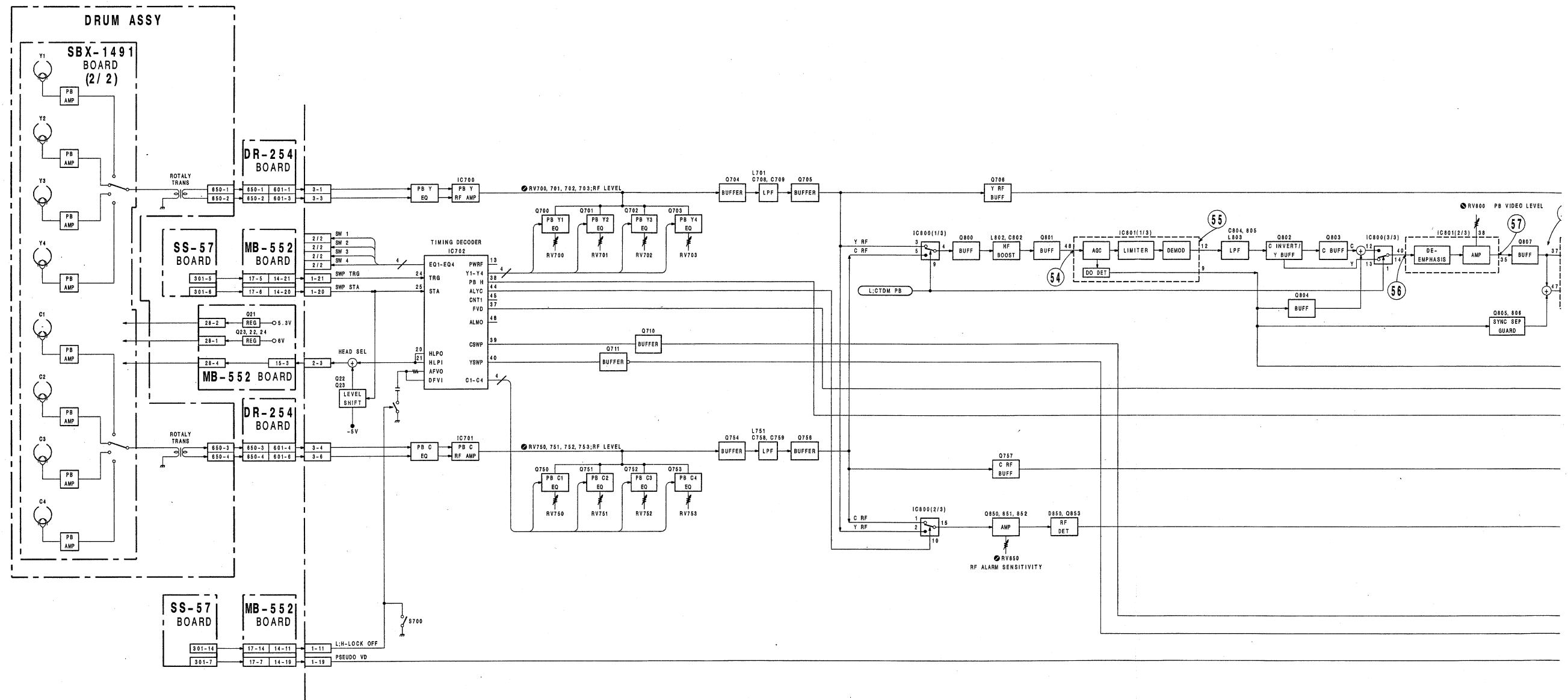
56 IC801-pin40 230mVp-p PB mode (PAL)

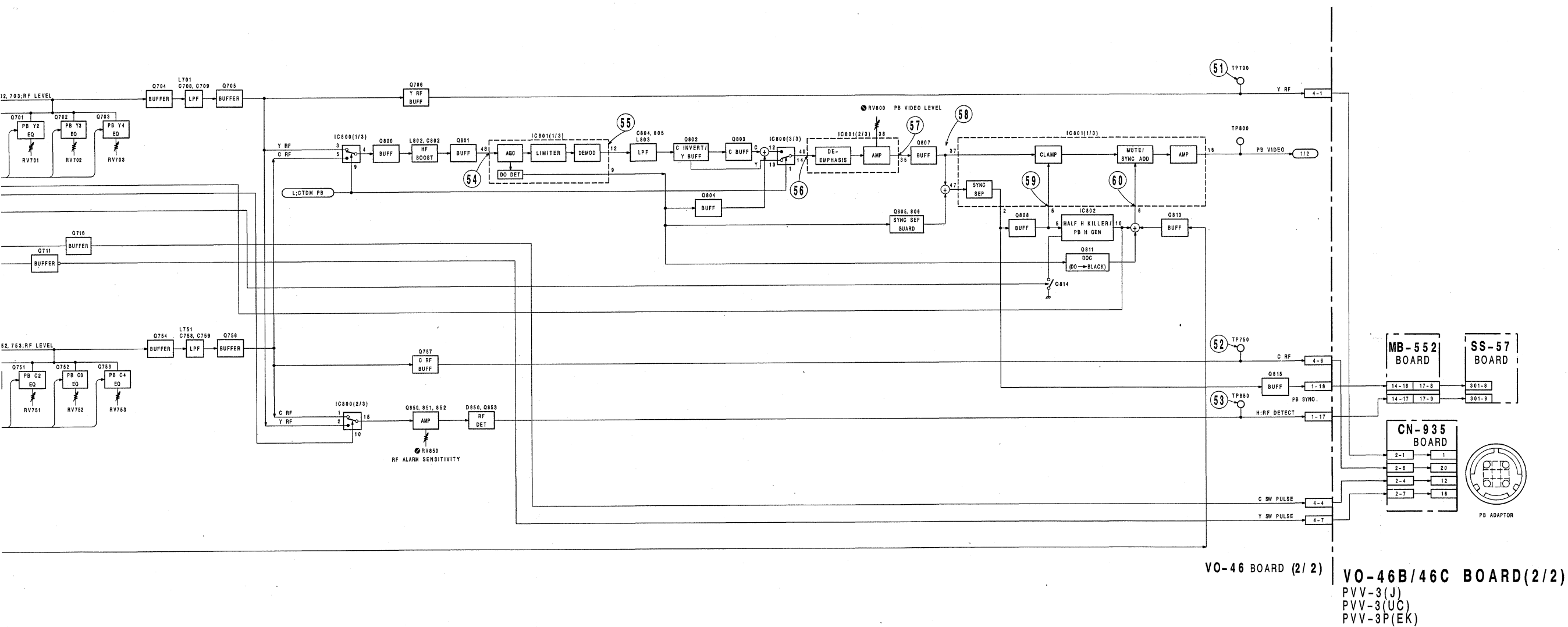


60 IC801-pin6 5Vp-p PB mode

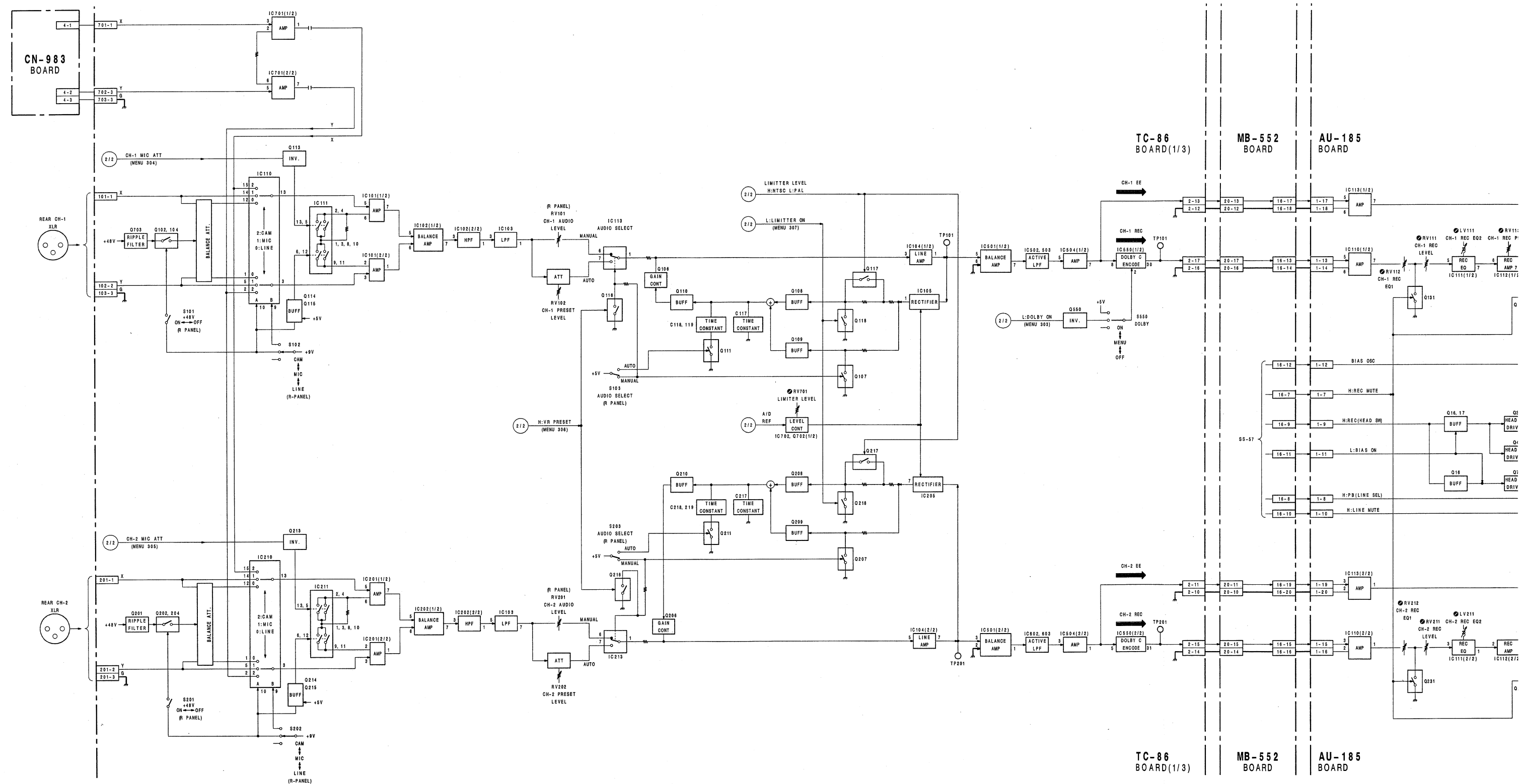


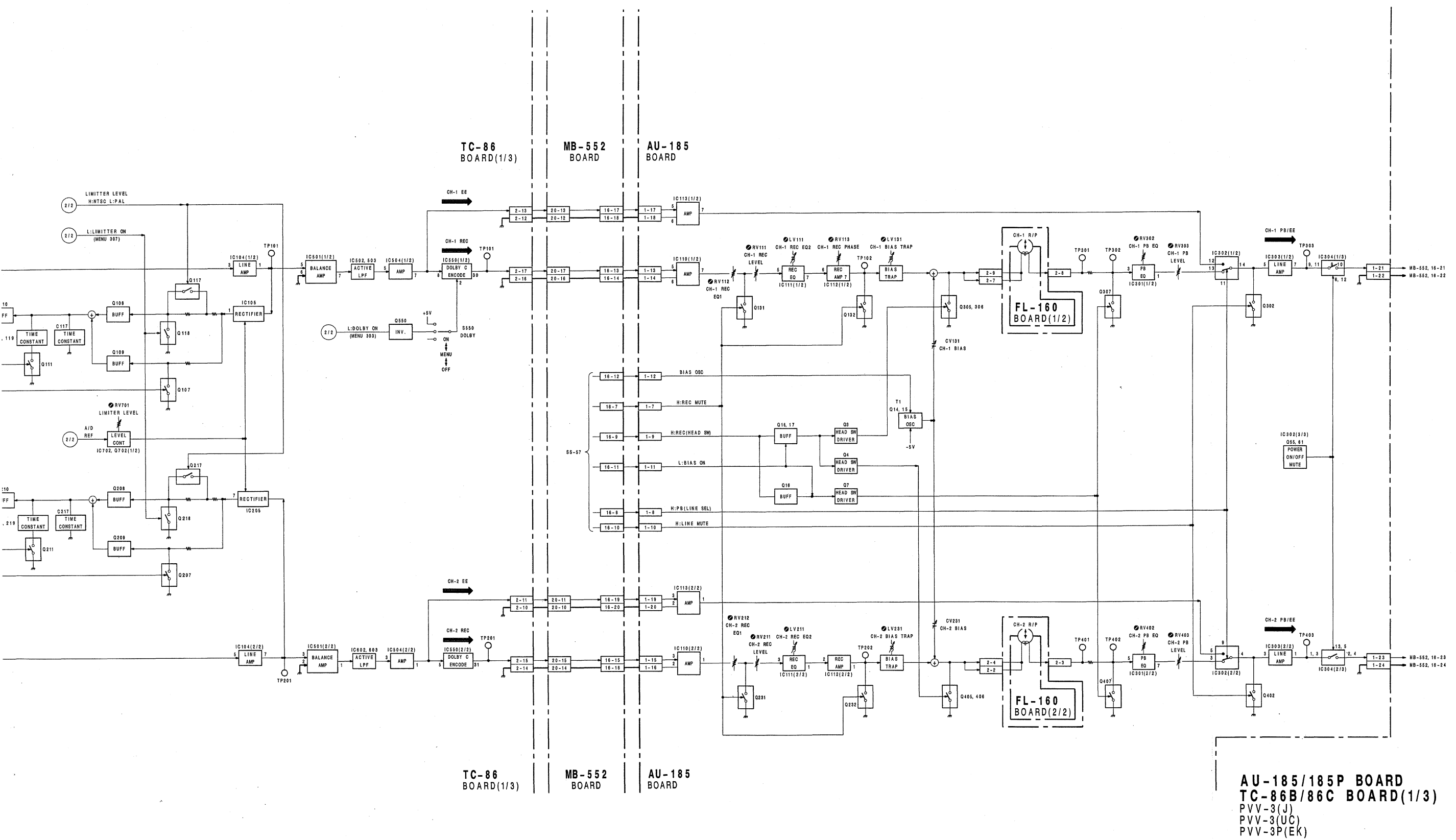
VIDEO SIGNAL PROCESS





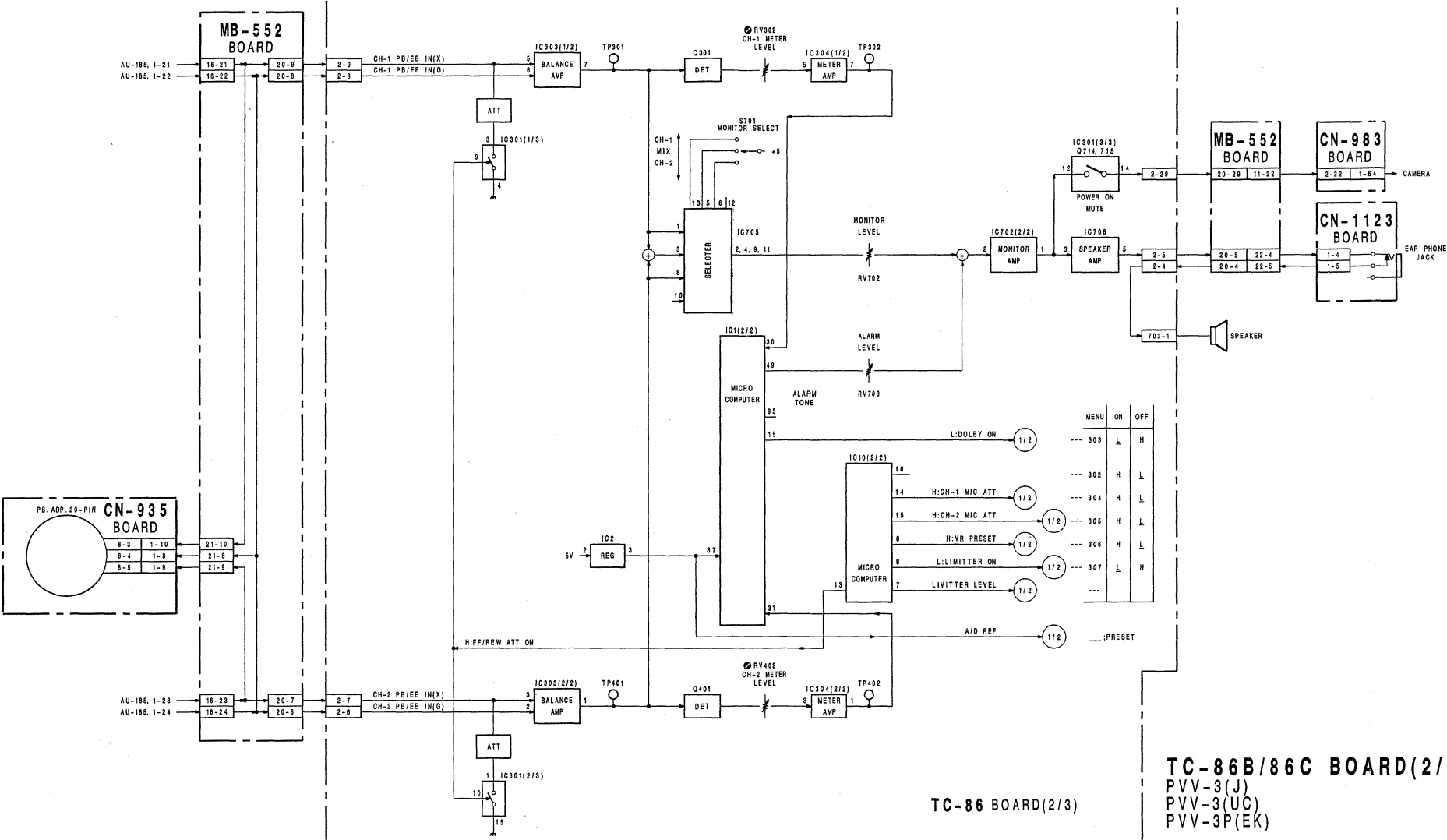
## INPUT/OUTPUT, AGC REC/PB AMP., NOISE REDUCTION





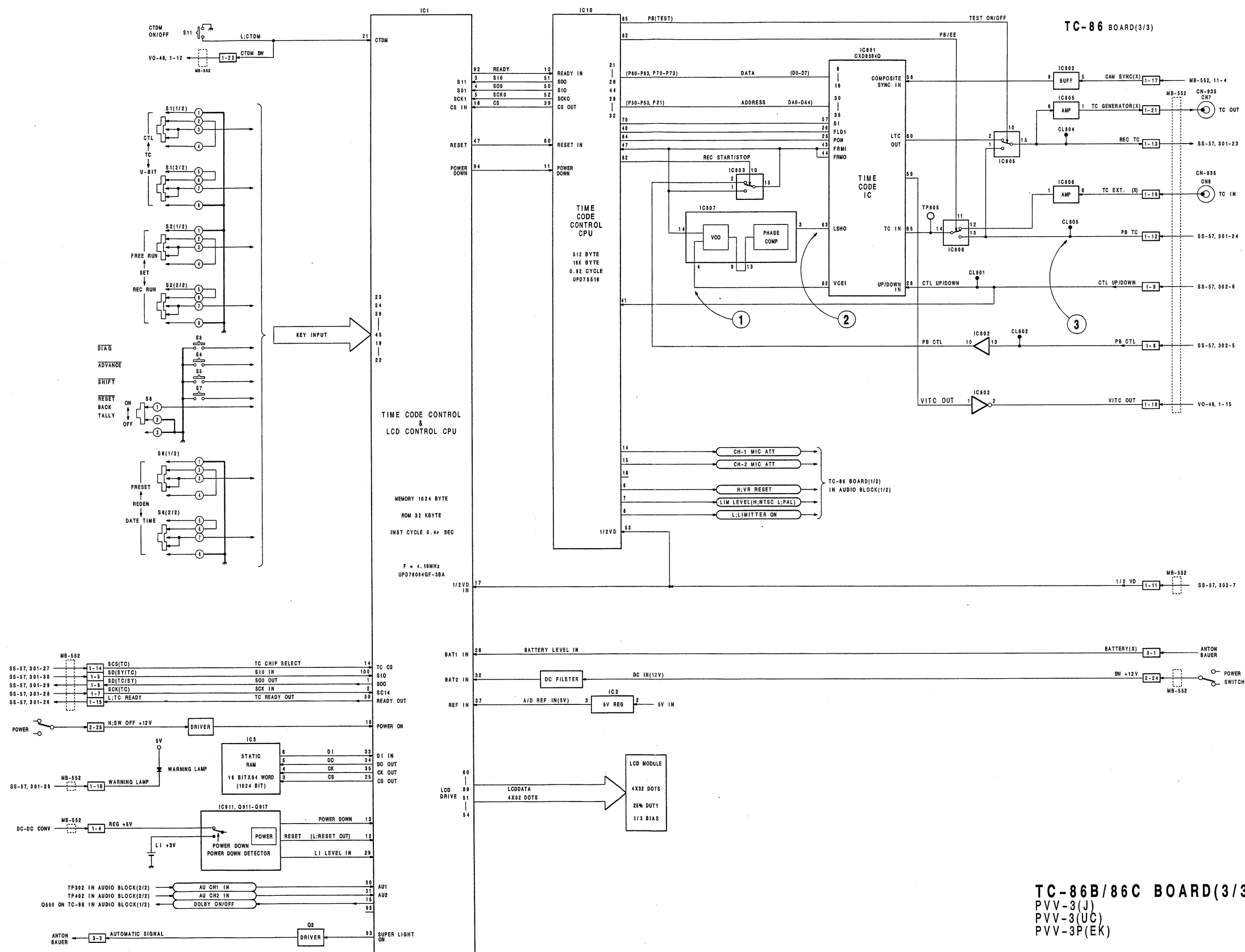
AU-185/185P BOARD  
TC-86B/86C BOARD(1/3)  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

AUDIO MONITOR AMP.



## TIME CODE BLOCK TIME CODE BLOCK

# TC GENERATOR/READER



13-8

13 - 8

PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

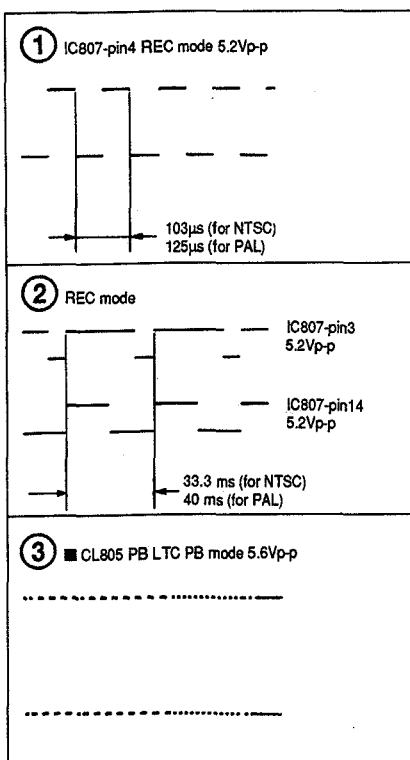
# TC GENERATOR/READER

RECモード ... 75% COLOR BARSの記録状態。

PBモード ..... アライメントテープCR5-1BのCOLOR BARS部分の再生状態。

REC mode ..... Record the 75% color bars signal.

PB mode ..... Play back the color bars signal portion of the alignment tape CR5-1B (for NTSC) / CR5-1BPS (for PAL).





# SERVO/SYSTEM CONTROL BLOCK

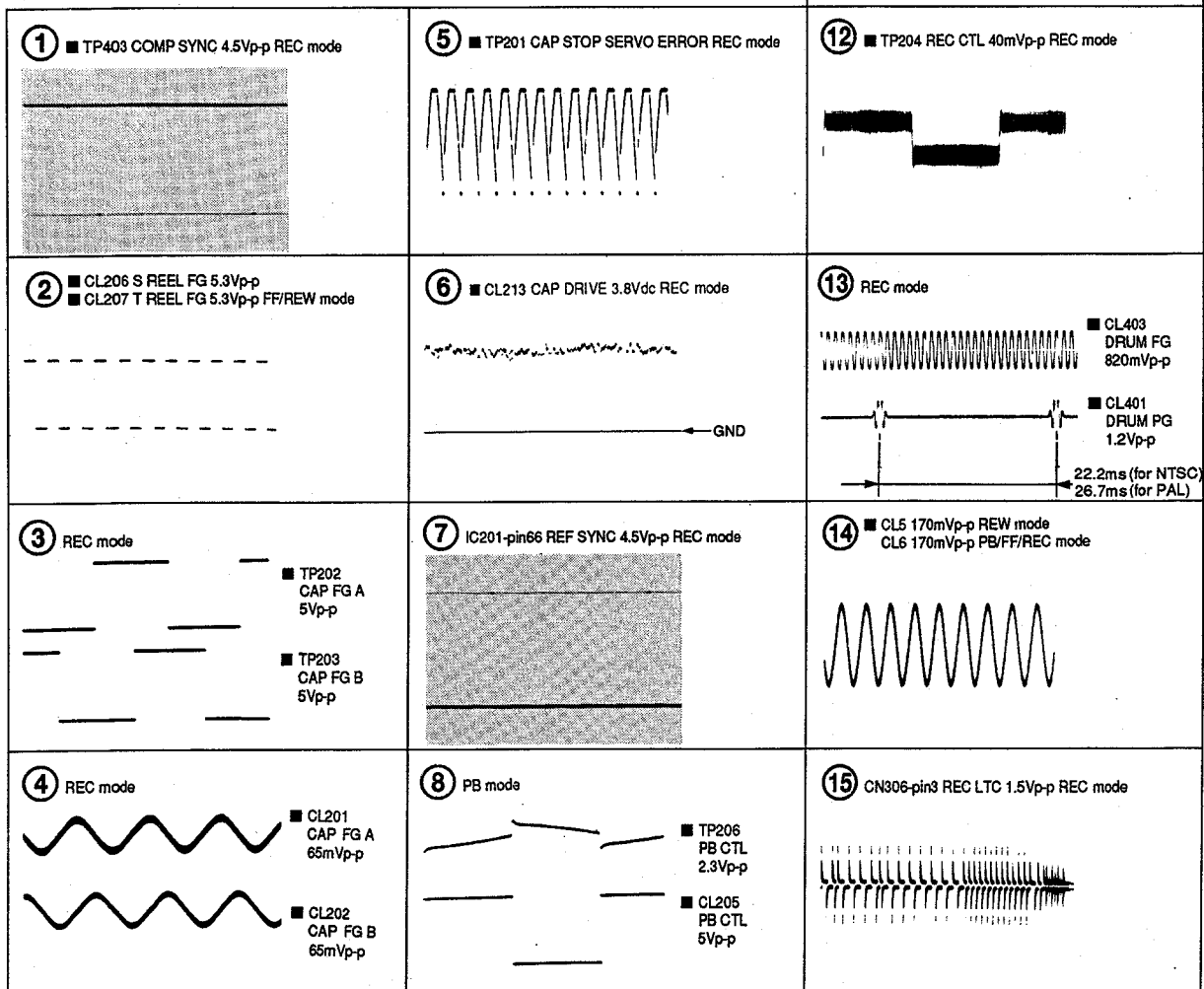
## SERVO & SYSTEM CONTROL BLOCK

RECモード...75% COLOR BARSの記録状態。

PBモード.....アライメントテープCR5-1BのCOLOR BARS部分の再生状態。

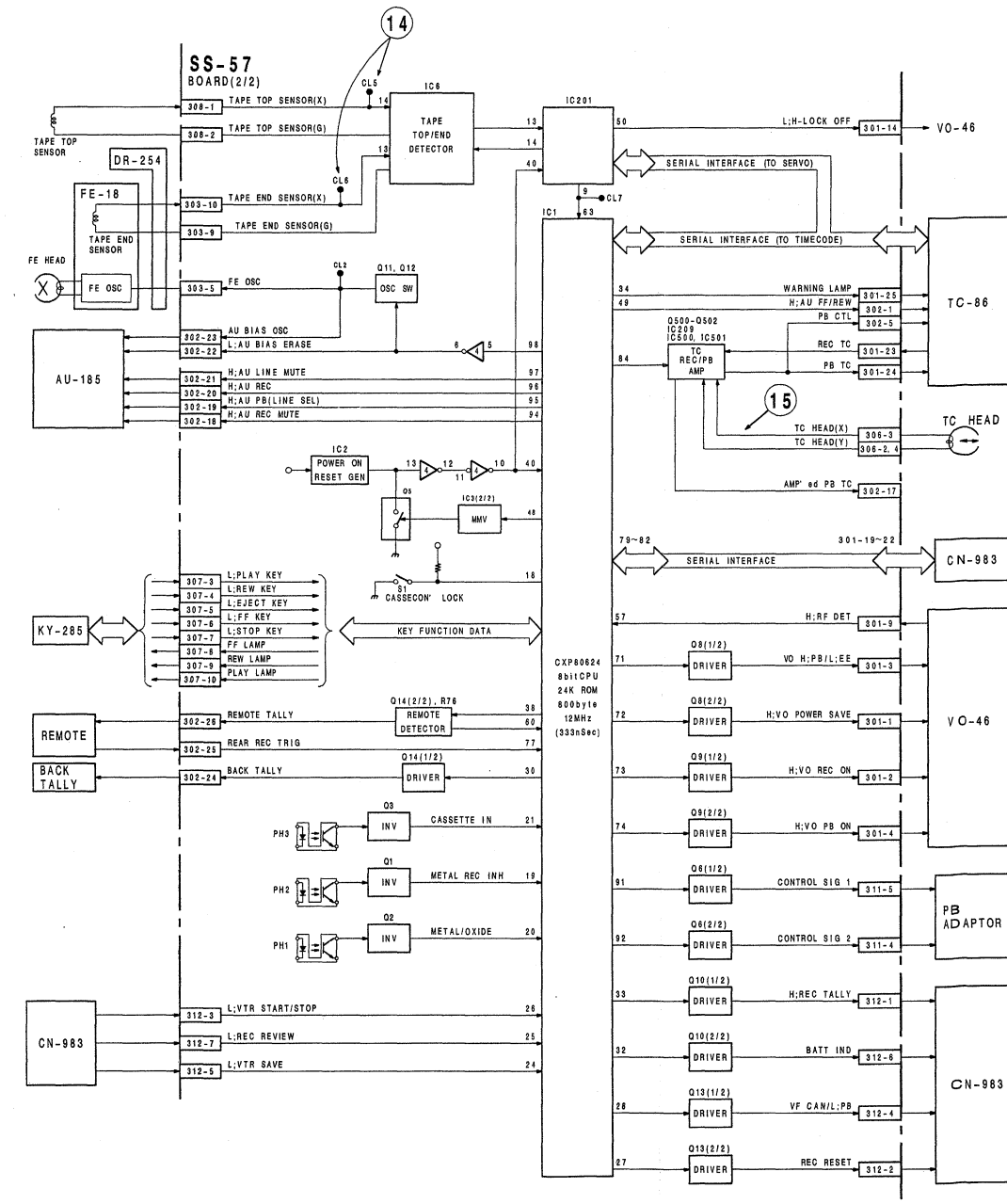
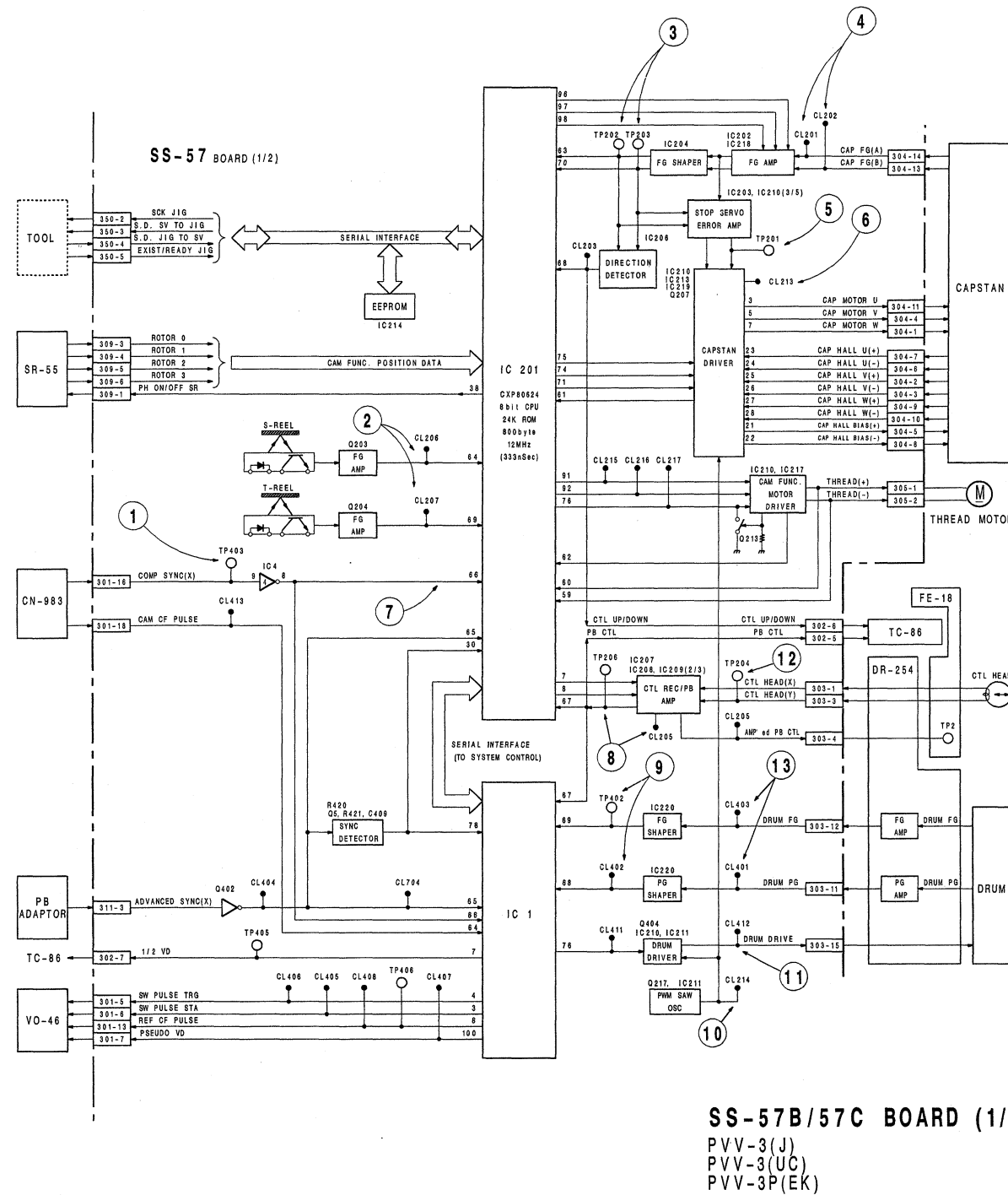
REC mode ..... Record the 75% color bars signal.

PB mode ..... Play back the color bars signal portion of the alignment tape CR5-1B (for NTSC) / CR5-1BPS (for PAL).



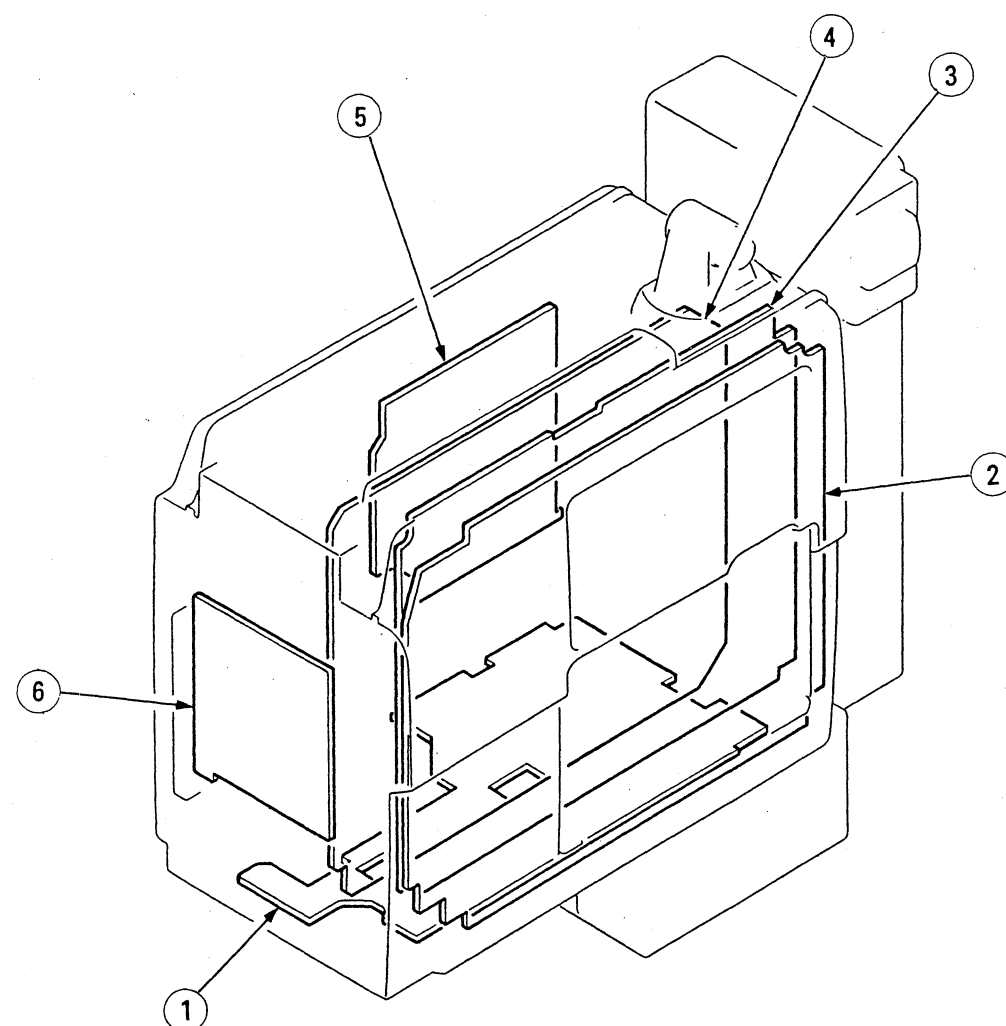
SERVO

SYSTEM CONTROL



# SECTION 14 SCHEMATIC DIAGRAMS AND BOARD LAYOUTS

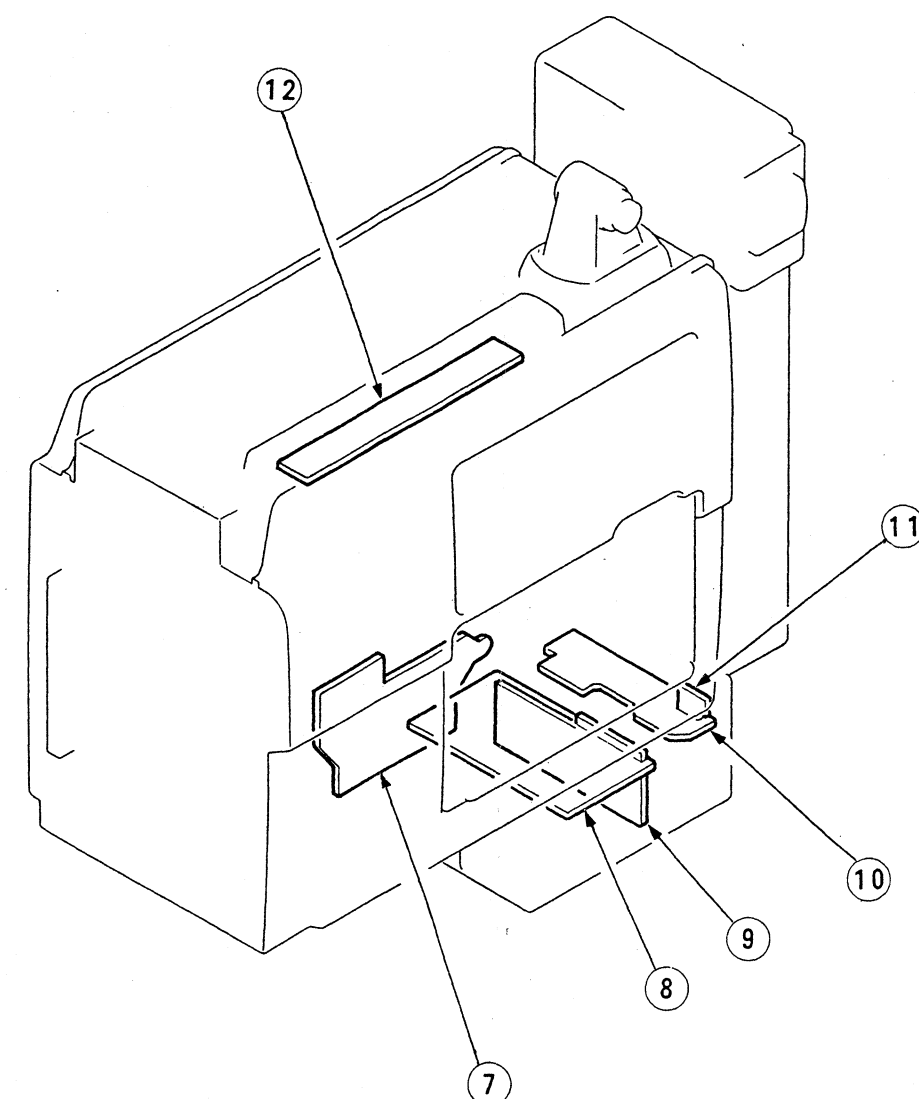
## BOARD LAYOUT



- ① MB-552 Board
- ② TC-86B (J,UC)/TC-86C (EK) Board
- ③ VO-46B (J,UC)/VO-46C (EK) Board
- ④ SS-57B (J,UC)/SS-57C (EK) Board
- ⑤ AU-185 (J,UC)/AU-185P (EK) Board
- ⑥ CN-983 Board

PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

14-1



- ⑦ CN-935 Board
- ⑧ DC-67 Board
- ⑨ DC-68 Board
- ⑩ CN-1123 Board
- ⑪ LED-214 Board
- ⑫ KY-285 Board

14-1

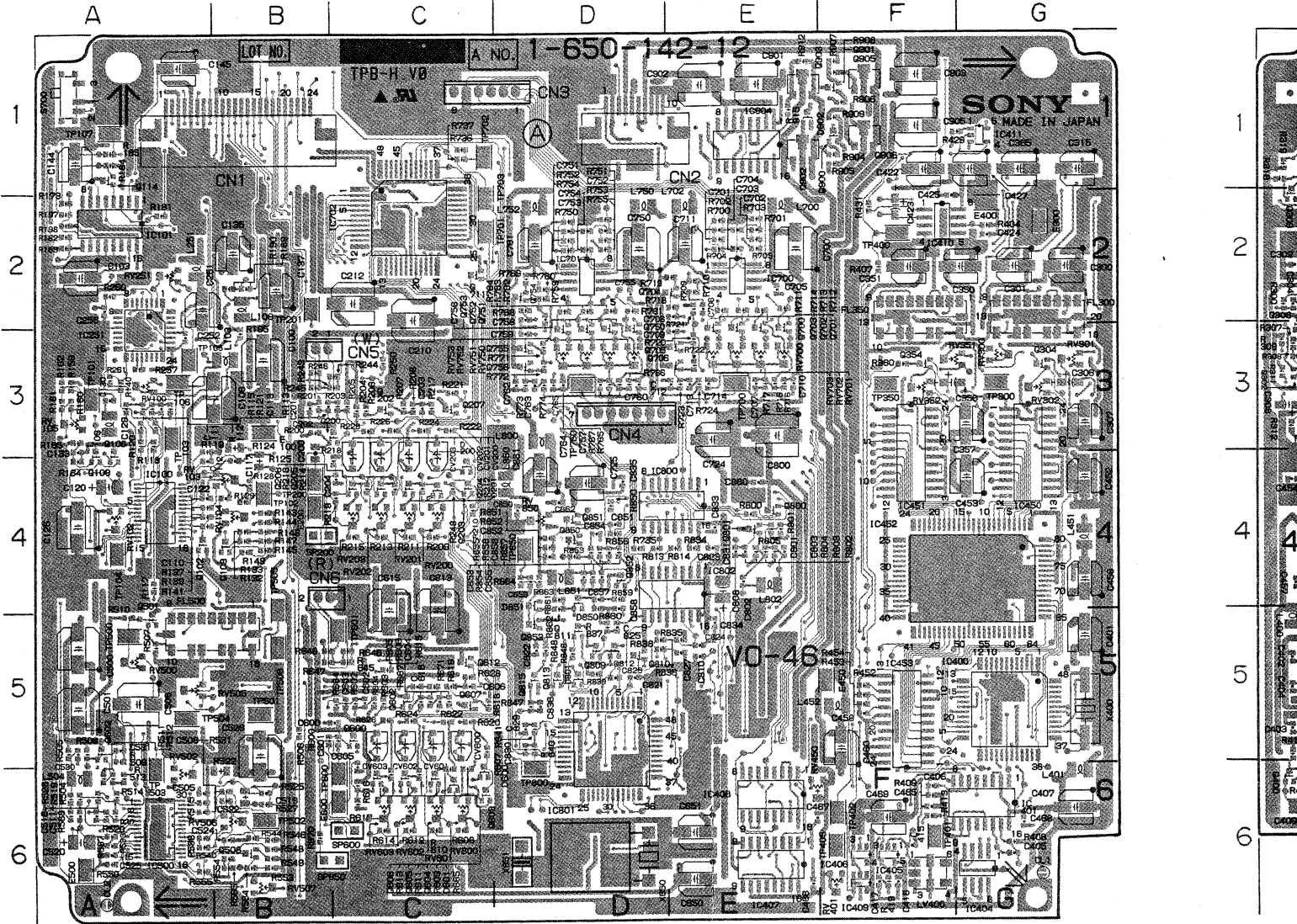
VO-46B/46C BOARD

VO-46B/46C(1-650-142-12)

\*, B SIDE

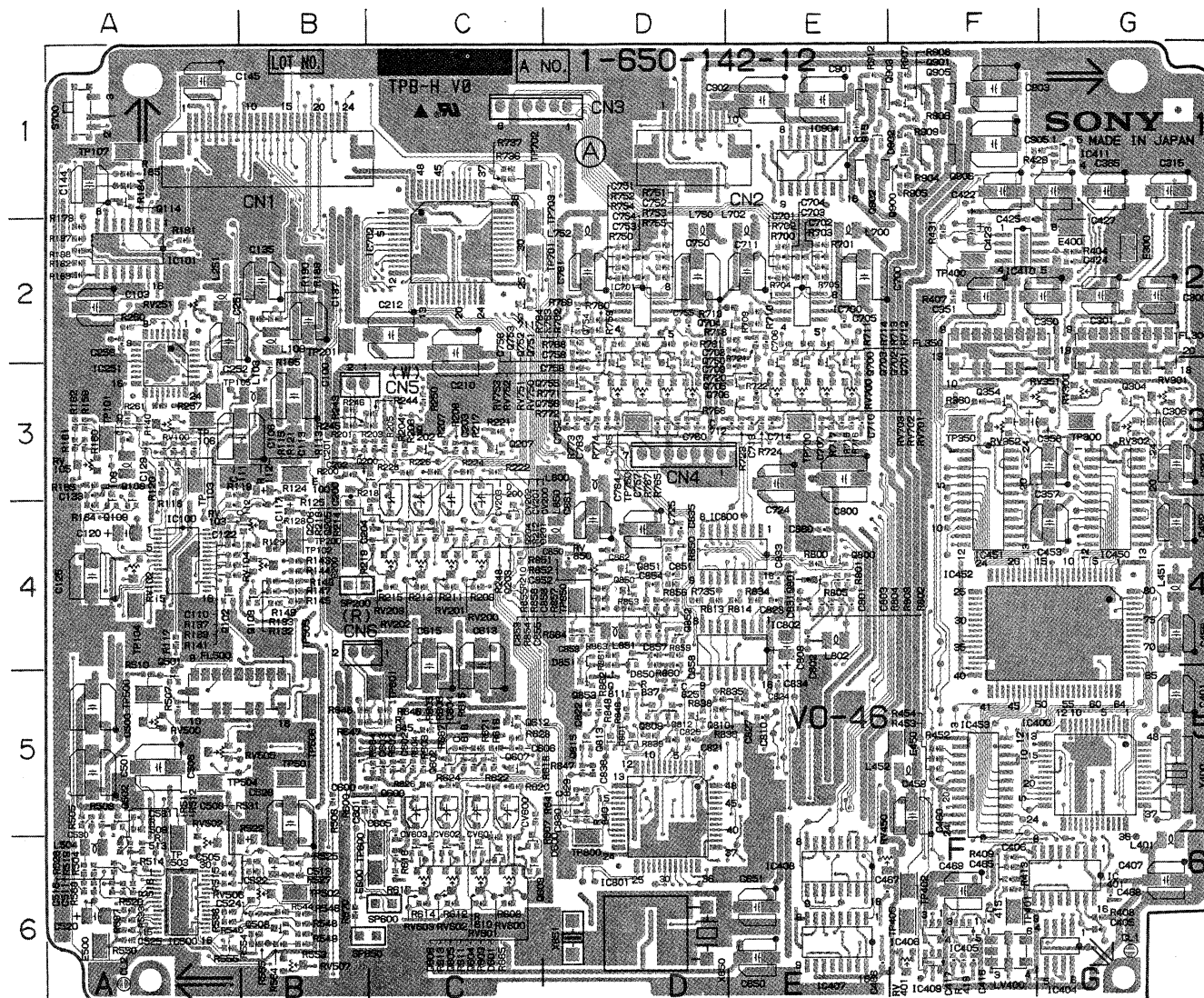
CN1	B-1	IC800	E-4	Q359	G-2	*Q803	E-5	SS200	B-4
CN2	D-1	IC801	D-5	*Q400	G-6	*Q804	E-5	SS600	C-6
CN3	D-1	IC802	E-4	*Q401	G-6	*Q805	D-5	SS650	B-6
CN4	D-3	*IC900	D-1	*Q402	F-1	*Q806	D-5		
CN5	B-3	*IC902	E-1	*Q500	B-5	*Q807	E-5	S700	A-1
CN6	B-4	*IC903	E-1	Q501	A-5	*Q808	D-5		
		IC904	E-1	Q502	A-5	Q809	D-5	*TH400	E-6
CV200	C-4	*IC905	F-1	*Q503	A-5	Q810	D-5		
CV201	C-4	*IC906	D-1	*Q504	B-5	Q811	D-5	TP101	A-3
CV202	C-4			*Q505	B-5	Q812	D-5	TP102	B-4
CV203	C-4	LV400	F-6	*Q506	B-6	Q813	D-5	TP103	A-3
CV600	C-5			*Q507	A-5	*Q814	D-4	TP104	A-4
CV601	C-5	*Q101	A-3	Q508	B-6	Q815	D-5	TP105	A-3
CV602	C-5	Q102	A-4	*Q509	A-5	Q850	D-4	TP106	A-3
CV603	C-5	Q103	B-4	*Q510	A-5	Q851	D-4	TP107	A-1
		*Q104	A-4	Q600	C-5	Q852	D-4	TP200	B-4
*D100	A-2	*Q105	A-3	*Q601	C-5	Q853	D-5	TP201	B-2
*D400	F-6	*Q106	A-3	Q602	C-5	Q900	F-1	TP300	G-3
*D402	G-6	*Q107	A-3	Q603	C-6	Q901	F-1	TP350	F-3
*D800	D-5	Q108	A-4	Q604	C-6	Q902	E-1	TP400	F-2
D801	D-5	Q109	A-4	Q605	C-6	Q903	E-1	TP401	F-6
D850	D-4	*Q110	A-3	Q606	C-6	Q905	F-1	TP402	F-6
D851	D-4	*Q111	B-3	Q607	C-5	Q906	F-1	TP405	F-6
*D901	F-1	*Q113	A-2	*Q608	C-5			TP500	A-5
D902	E-1	Q114	A-1	*Q609	C-5	RV100	A-3	TP501	B-5
		*Q115	A-3	*Q610	C-5	RV102	A-4	TP502	B-6
E100	B-3	*Q116	A-3	*Q611	C-5	RV103	B-4	TP503	A-6
E200	B-4	*Q117	A-3	Q612	C-5	RV104	B-4	TP504	A-5
E300	G-2	Q200	C-3	*Q613	C-5	RV105	A-3	TP505	B-4
E400	G-2	*Q201	C-3	*Q614	C-5	RV200	C-4	TP506	B-5
E450	F-5	Q202	C-3	*Q615	C-5	RV201	C-4	TP600	C-6
E500	A-6	Q203	C-4	*Q616	C-5	RV202	C-4	TP601	C-5
E600	C-6	Q204	C-4	*Q617	C-5	RV203	C-4	TP700	E-3
		Q205	C-4	*Q618	C-5	RV251	A-2	TP701	C-2
FL300	G-2	Q206	C-4	*Q619	C-5	RV300	G-3	TP702	C-1
FL350	F-2	Q207	C-3	*Q620	B-5	RV301	G-3	TP703	C-2
FL500	A-5	*Q208	C-3	*Q650	D-6	RV302	G-3	TP750	D-3
		*Q209	C-3	*Q651	D-6	RV351	F-3	TP800	D-6
IC100	A-4	*Q210	C-3	*Q652	C-6	RV352	F-3	TP850	D-4
IC101	A-2	*Q211	C-3	*Q653	C-6	RV401	F-6		
IC251	A-3	*Q212	C-3	*Q654	C-6	RV450	E-6	X400	G-5
IC400	G-5	*Q213	C-3	Q700	E-3	RV500	A-5	X650	D-6
IC401	G-6	*Q214	C-3	Q701	E-3	RV502	A-6	X651	D-6
*IC402	G-6	*Q215	C-3	Q702	E-3	RV505	A-5		
*IC403	F-6	*Q216	C-3	Q703	E-3	RV506	B-6		
IC404	G-6	*Q217	C-3	Q704	E-2	RV507	B-6		
IC405	F-6	*Q218	C-3	Q705	E-3	RV600	C-6		
IC406	F-6	*Q219	B-3	Q706	E-3	RV601	C-6		
IC407	E-6	*Q300	G-2	*Q707	C-2	RV602	C-6		
IC408	E-6	*Q301	G-3	*Q708	C-2	RV603	C-6		
IC409	F-6	*Q302	G-3	*Q709	C-2	RV700	E-3		
IC410	F-2	*Q303	G-3	*Q710	C-1	RV701	E-3		
IC411	G-1	Q304	G-3	Q711	C-2	RV702	E-3		
IC450	G-4	*Q305	G-3	Q750	D-3	RV703	E-3		
IC451	F-4	*Q306	G-3	Q751	D-3	RV750	D-3		
IC452	G-4	*Q309	G-2	Q752	D-3	RV751	D-3		
IC453	F-5	*Q350	F-2	Q753	D-3	RV752	D-3		
IC500	A-6	*Q351	F-3	Q754	D-2	RV753	D-3		
*IC650	D-6	*Q352	F-3	Q755	D-3	RV850	D-4		
*IC651	C-6	*Q353	F-3	Q756	D-3				
IC700	E-2	Q354	F-3	Q800	E-4	SP200	B-4		
IC701	D-2	*Q355	F-3	Q801	E-4	SP600	C-6		
IC702	C-2	*Q356	G-3	*Q802	E-5	SP650	B-6		

\*, B SIDE



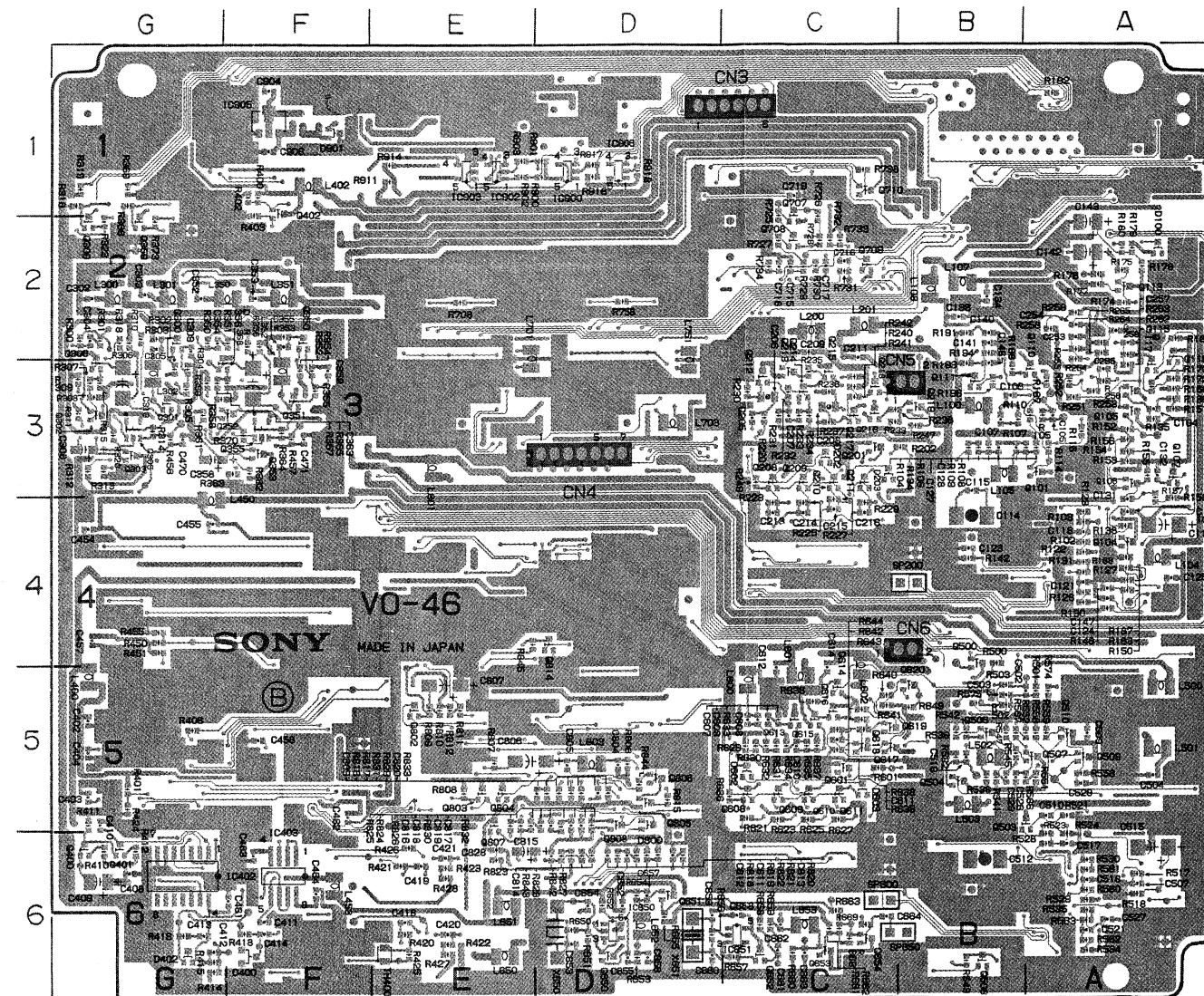
VO-46B/46C-A SIDE-  
1-650-142-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)





VO-46B/46C-A SIDE-

1-650-142-12  
 PVV-3(J)  
 PVV-3(UC)  
 PVV-3P(EK)



VO-46B/46C-B SIDE-

1-650-142-12  
 PVV-3(J)  
 PVV-3(UC)  
 PVV-3P(EK)

## VIDEO SIGNAL PROCESS

RECモード...信号発生器(テクトロニクスTSG-300または同等品)  
出力の75% COLOR BARSの記録状態。

PBモード.....アライメントテープCR5-1BのCOLOR BARS部分の  
再生状態。

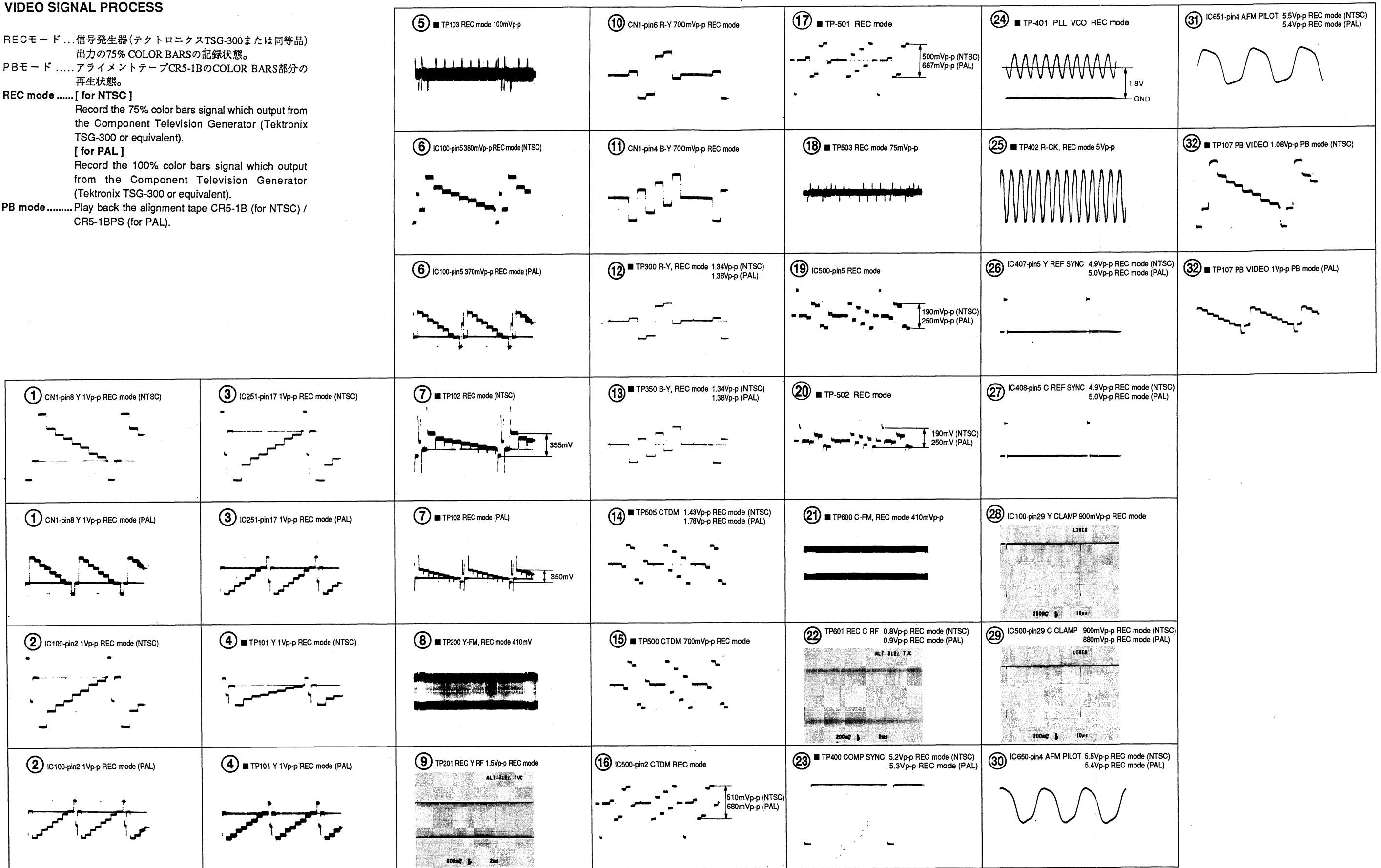
REC mode ..... [ for NTSC ]

Record the 75% color bars signal which output from  
the Component Television Generator (Tektronix  
TSG-300 or equivalent).

[ for PAL ]

Record the 100% color bars signal which output from  
the Component Television Generator  
(Tektronix TSG-300 or equivalent).

PB mode ..... Play back the alignment tape CR5-1B (for NTSC) /  
CR5-1BPS (for PAL).



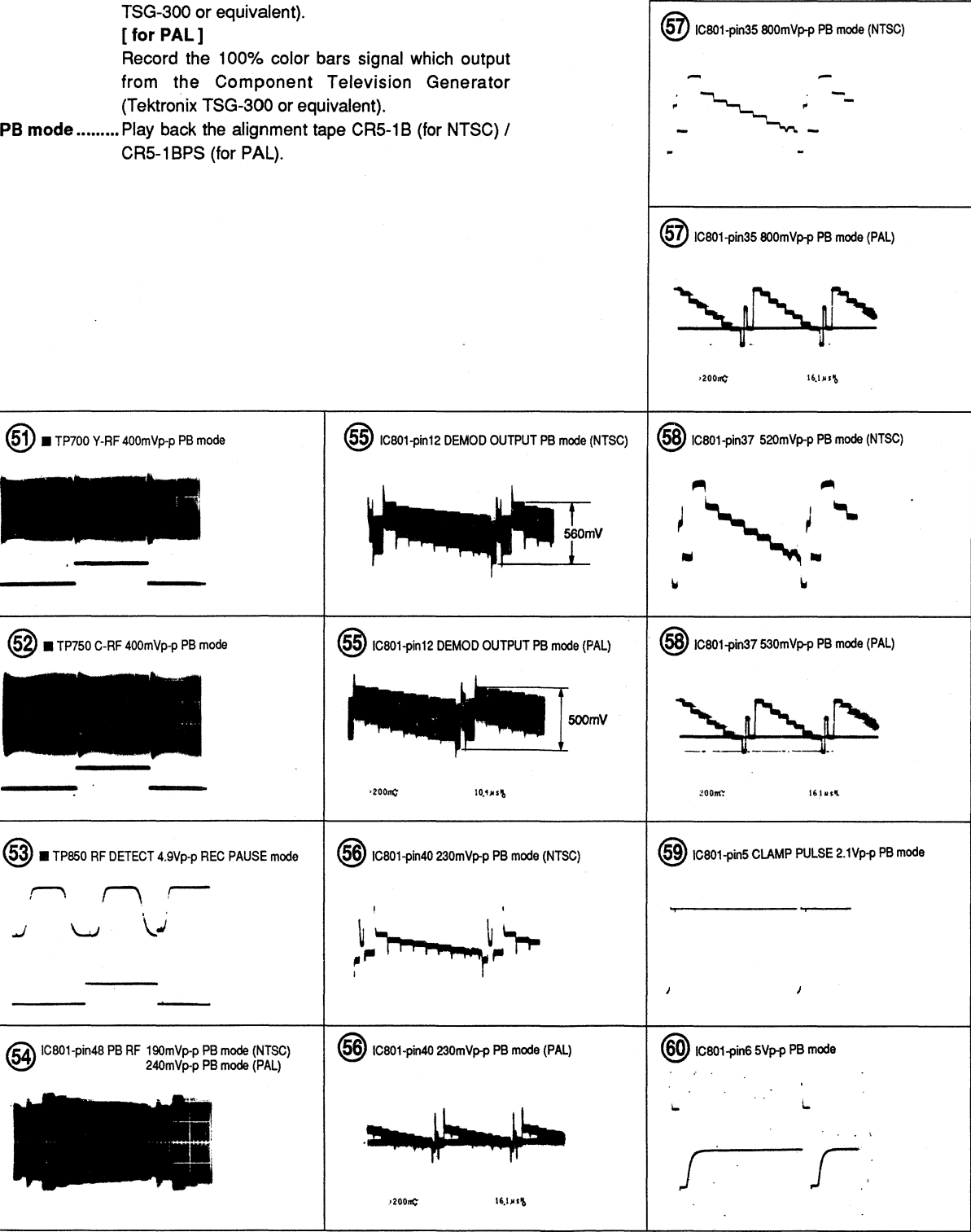
VIDEO SIGNAL PROCESS

RECモード...信号発生器(テクトロニクスTSG-300または同等品)  
出力の75% COLOR BARSの記録状態。

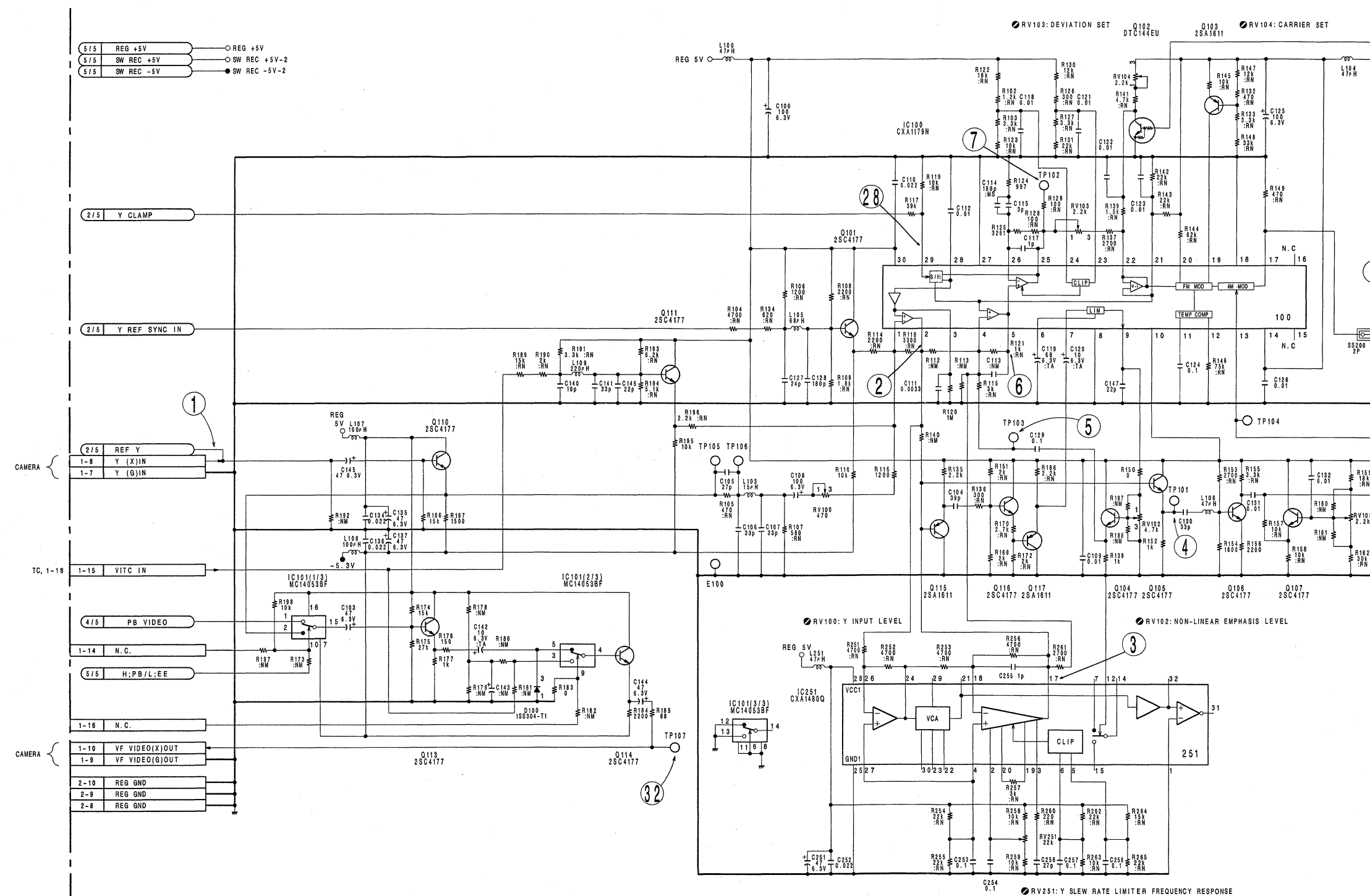
PBモード.....アライメントテープCR5-1BのCOLOR BARS部分の  
再生状態。

REC mode .....[ for NTSC ]  
Record the 75% color bars signal which output from  
the Component Television Generator (Tektronix  
TSG-300 or equivalent).  
[ for PAL ]  
Record the 100% color bars signal which output  
from the Component Television Generator  
(Tektronix TSG-300 or equivalent).

PB mode .....Play back the alignment tape CR5-1B (for NTSC) /  
CR5-1BPS (for PAL).



Y REC PROCESS

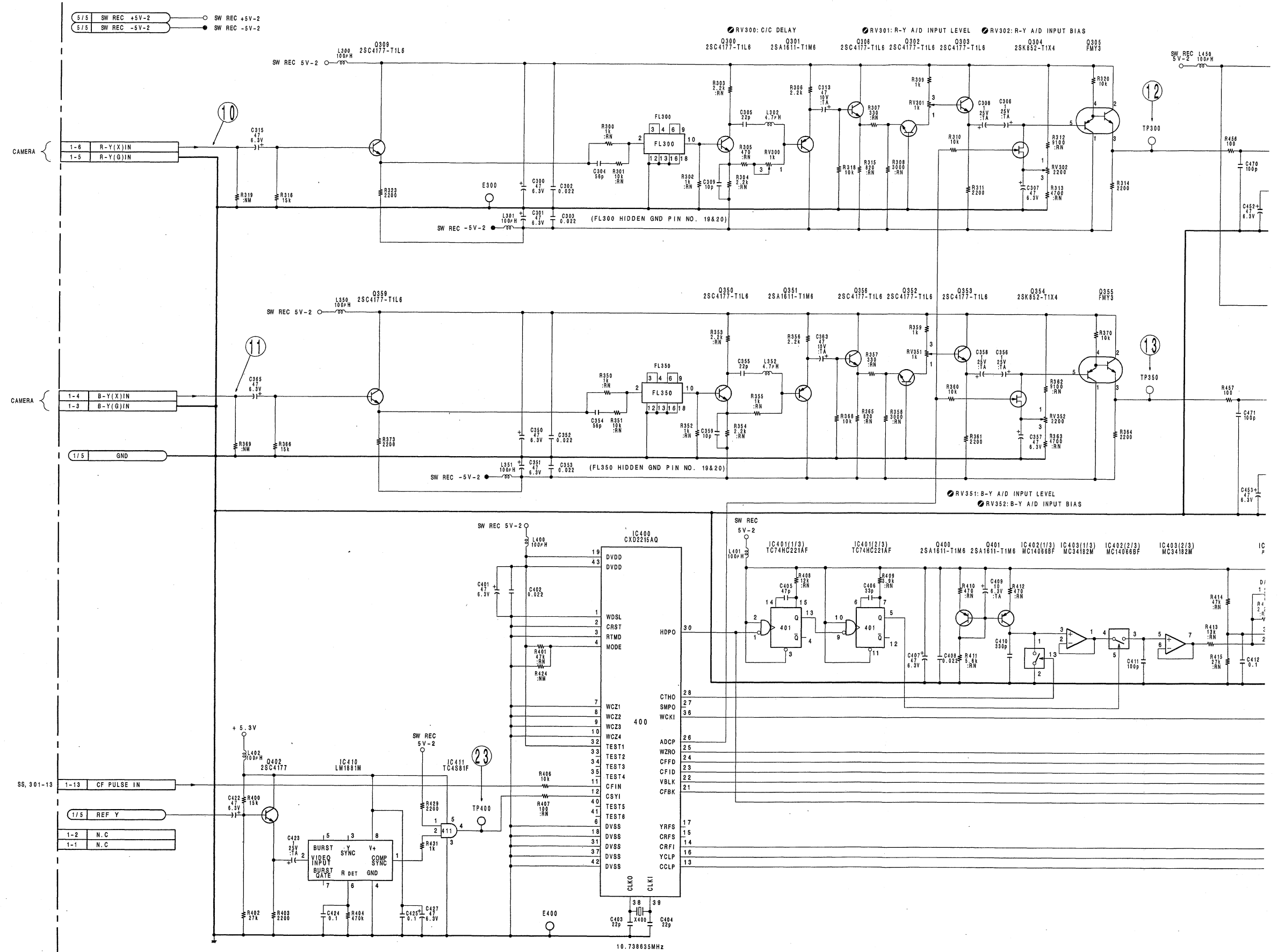






PVV-3 (J)  
PVV-3 (UC)

CHROMA A/D, CTDM  
Y/C REF SYNC



A

B

C

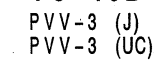
D

E

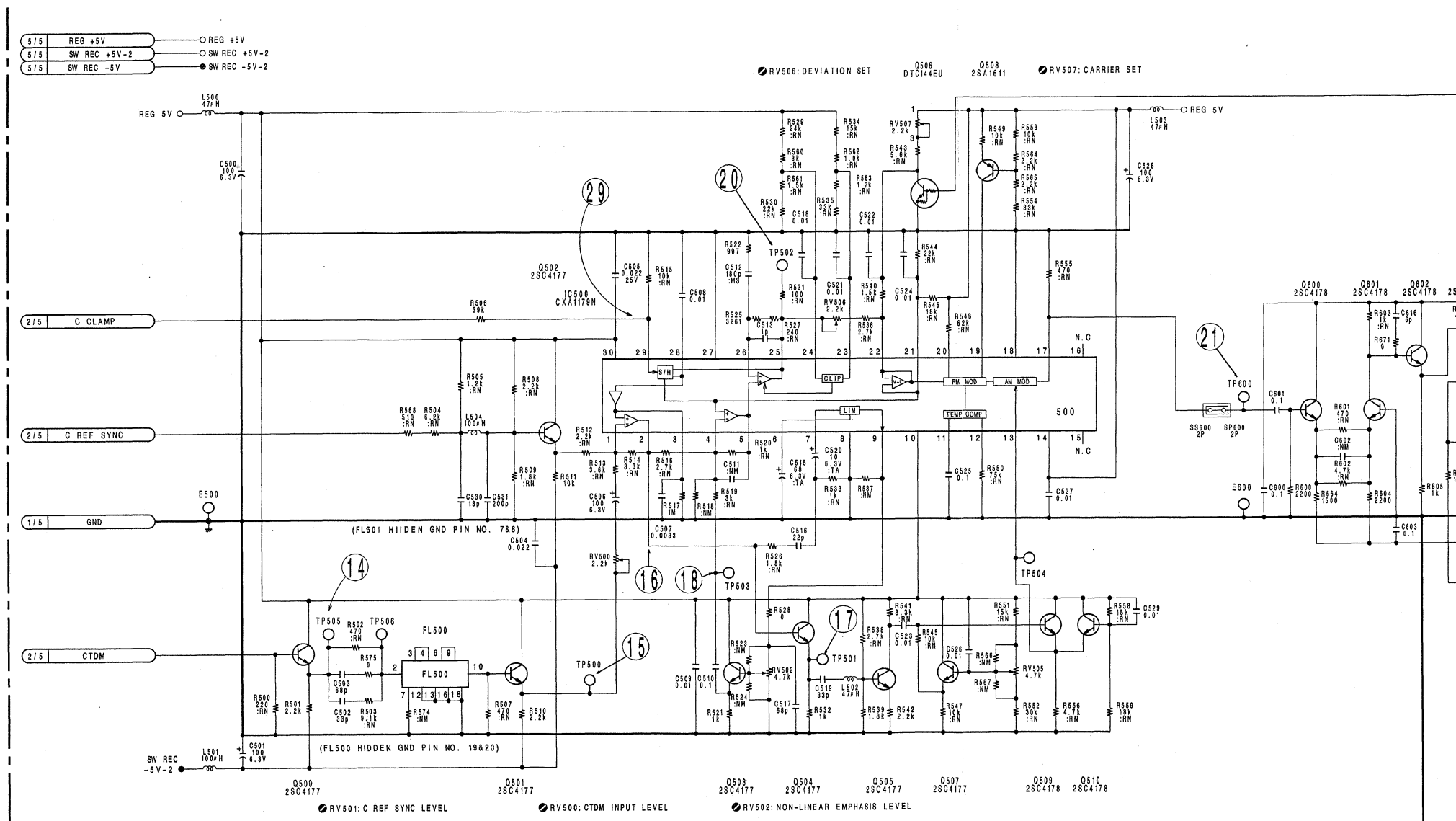
F

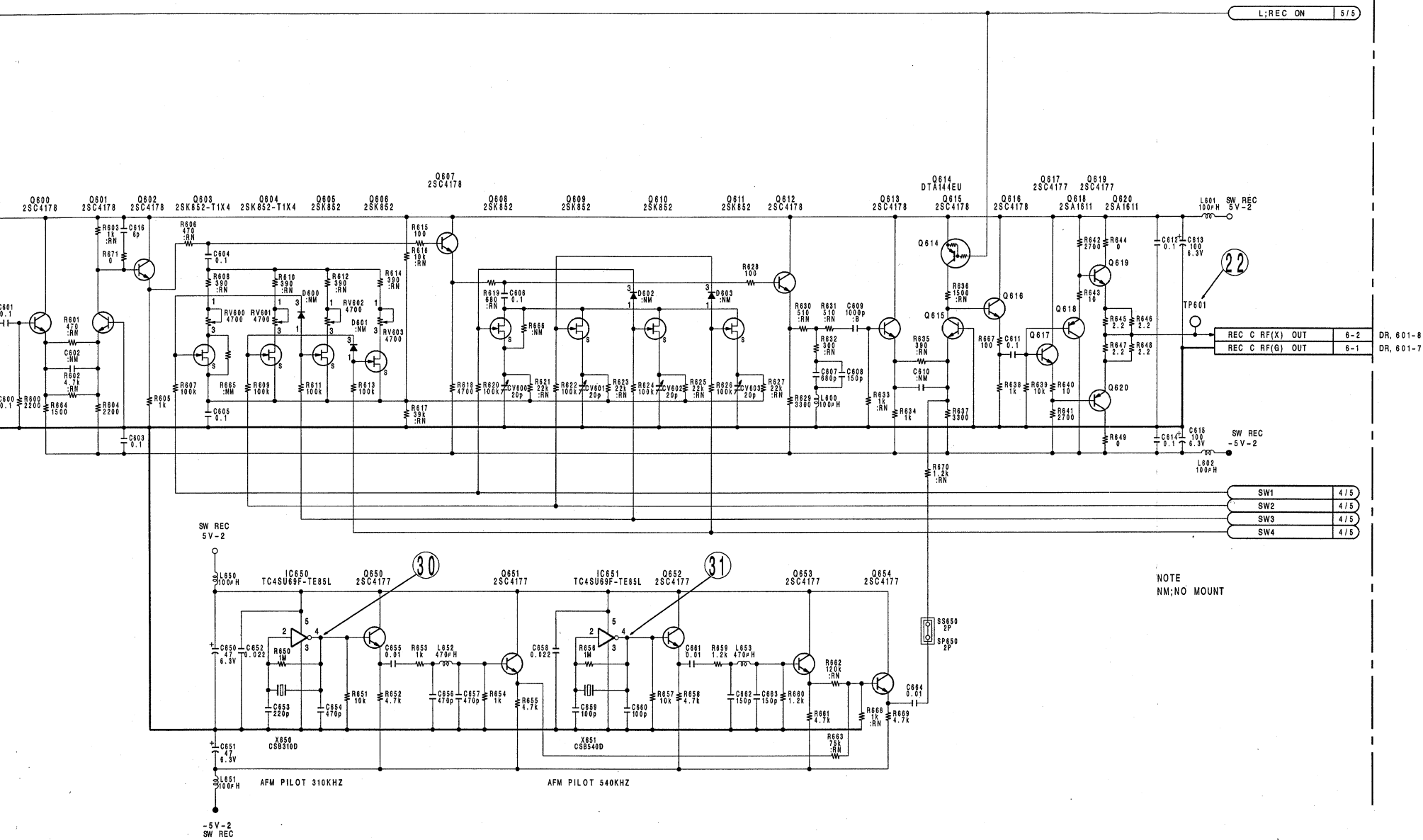
G

H

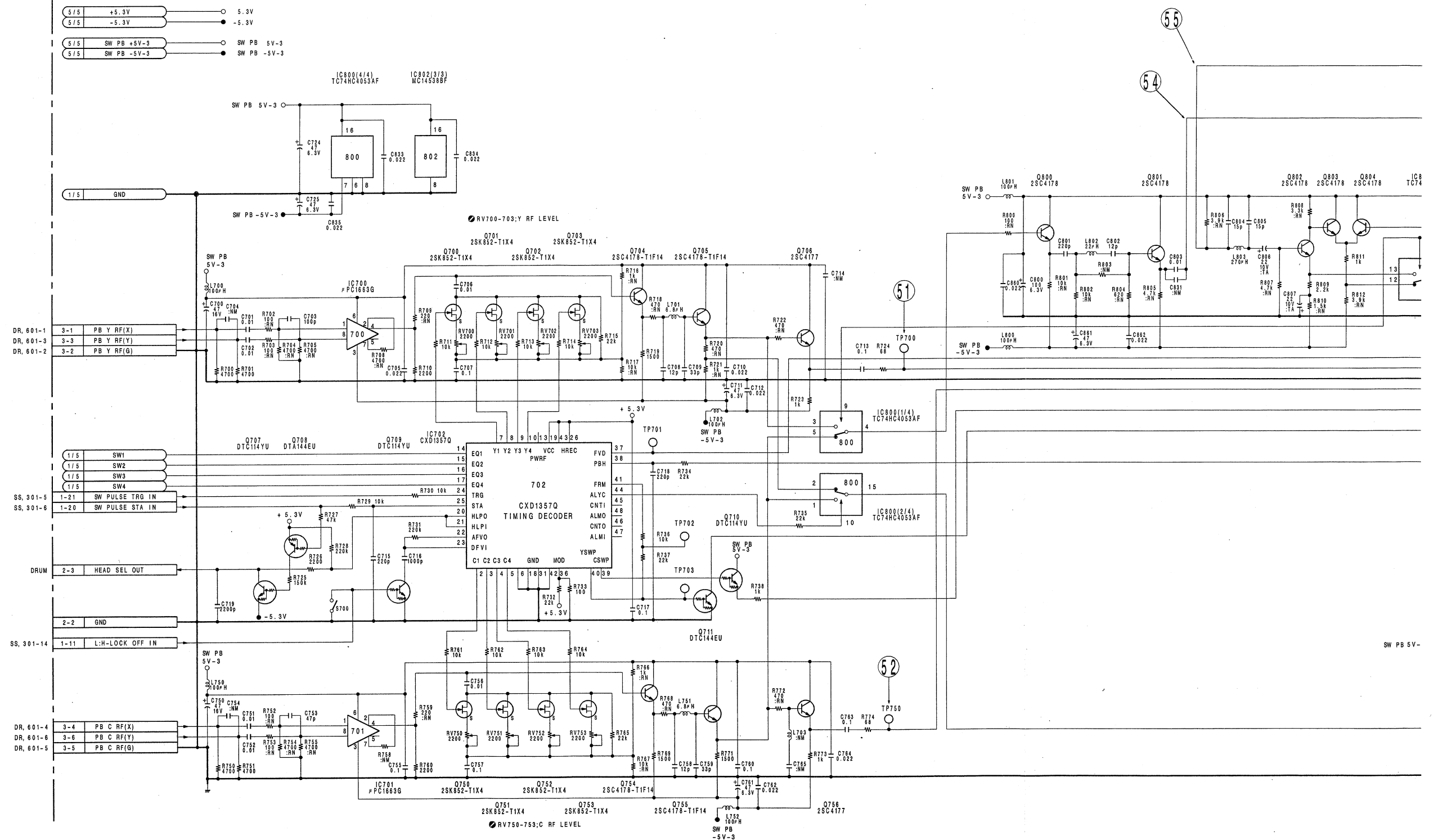


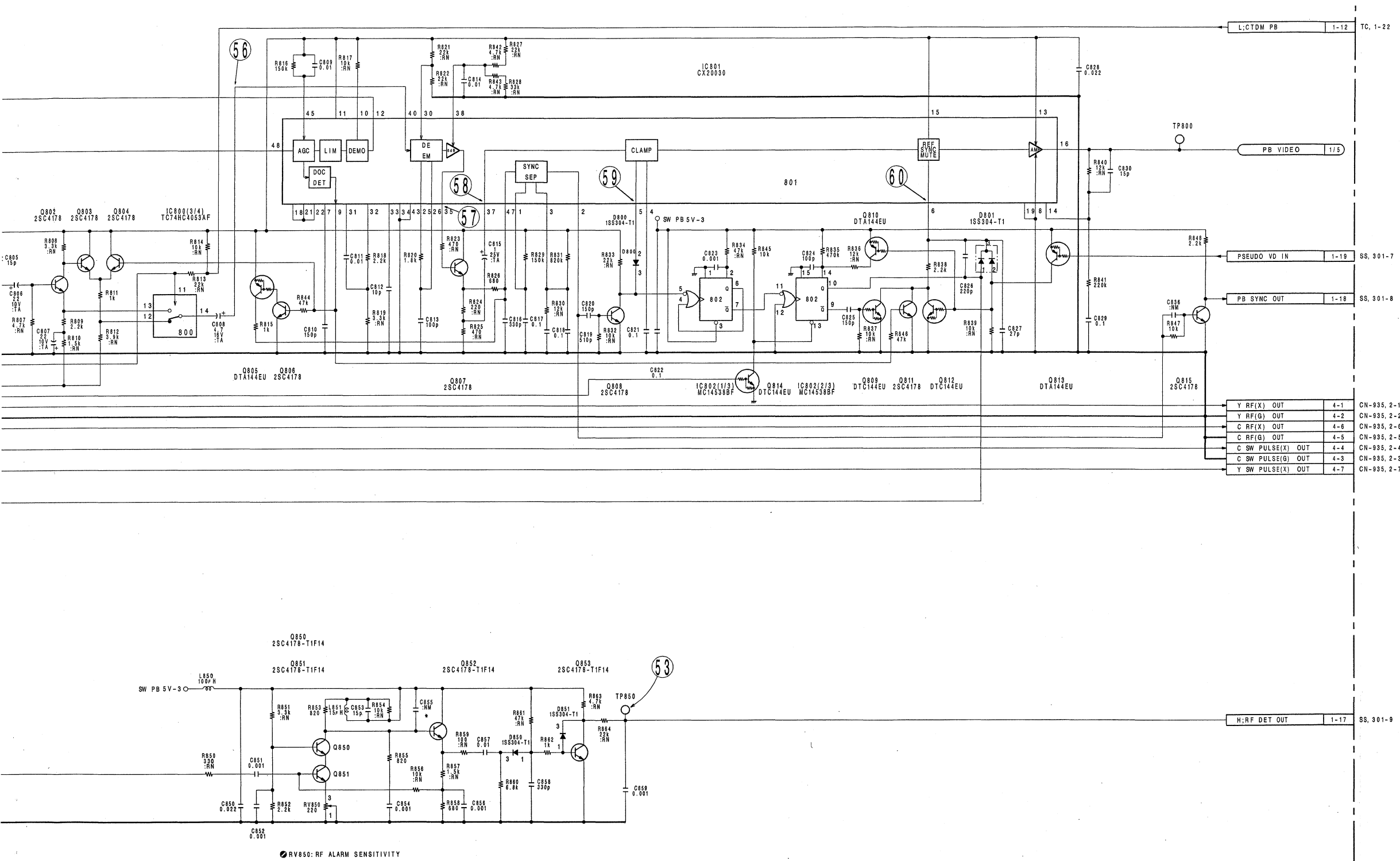
CHROMA REC PROCESS, AFM PILOT





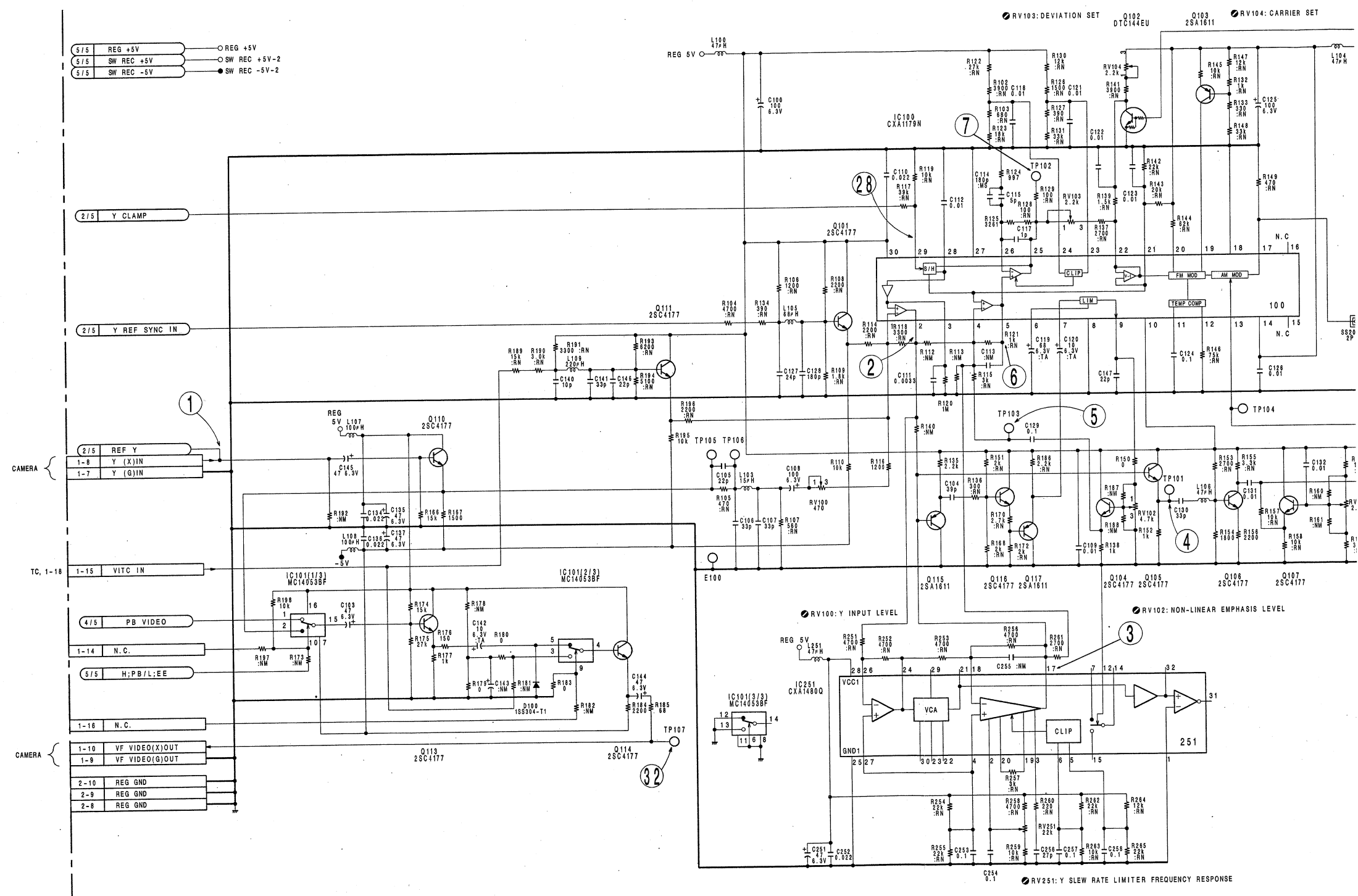
Y/C PB PROCESS, RF ALARM DET







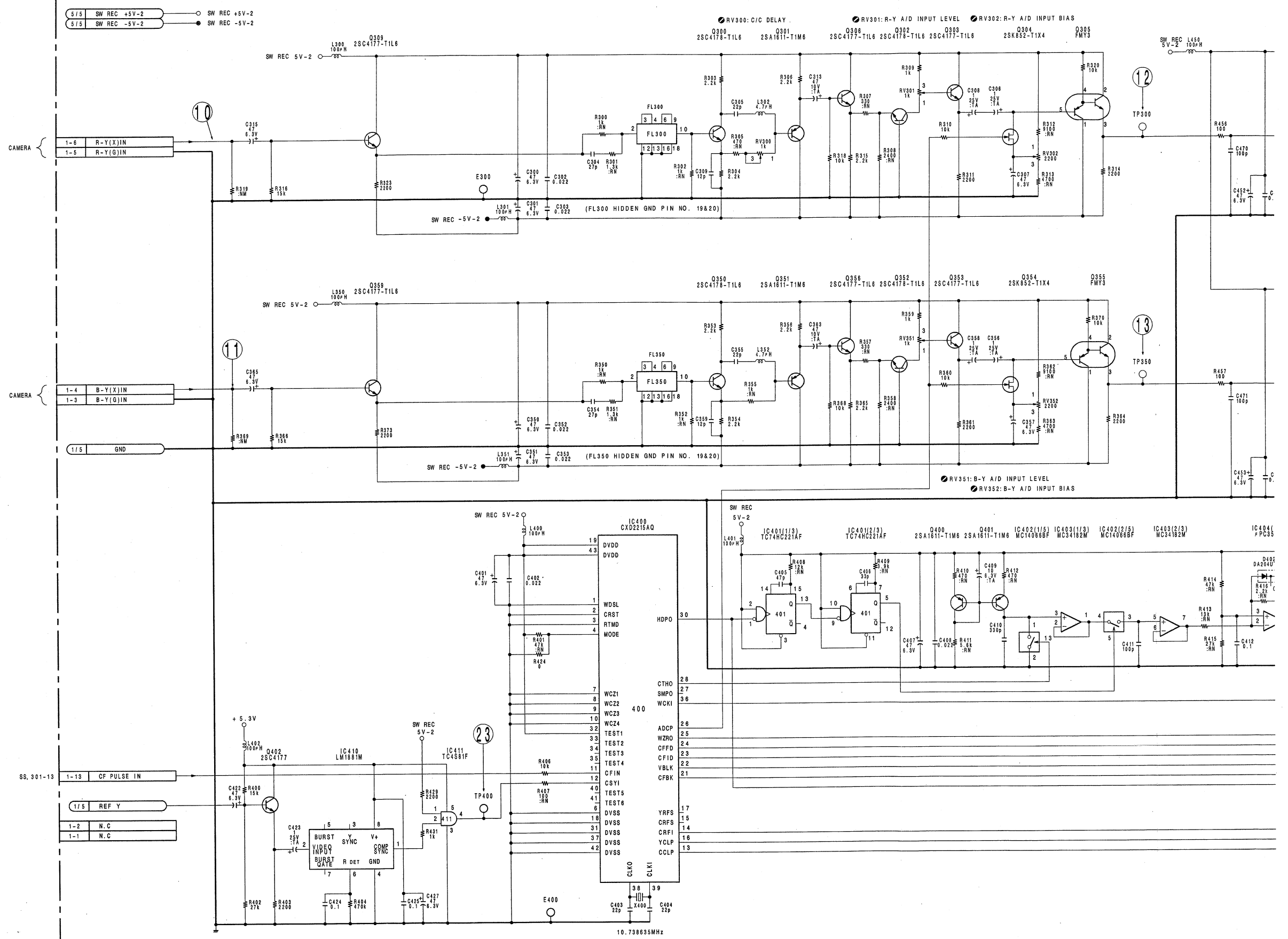


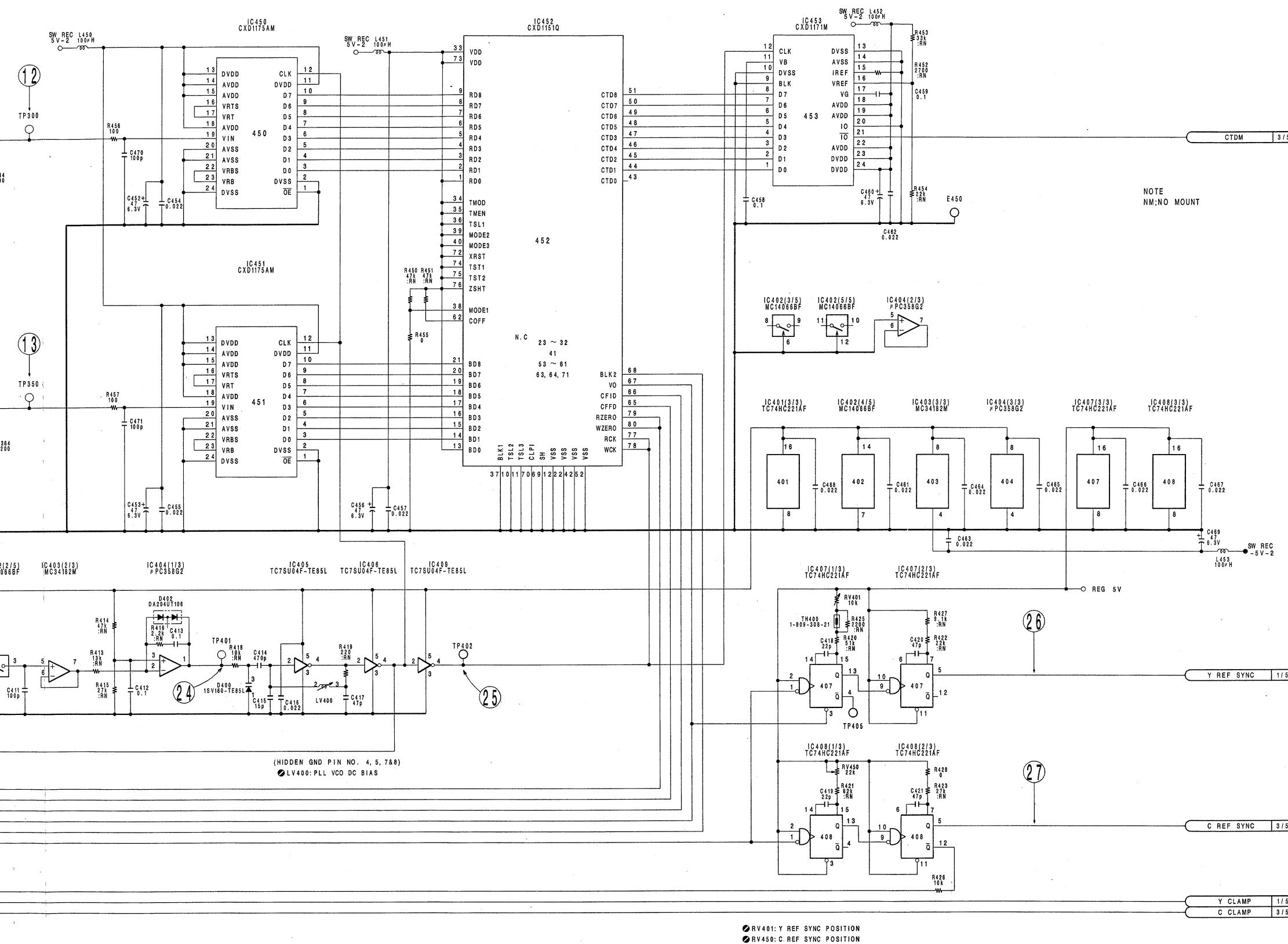




PVV-3P (EK)

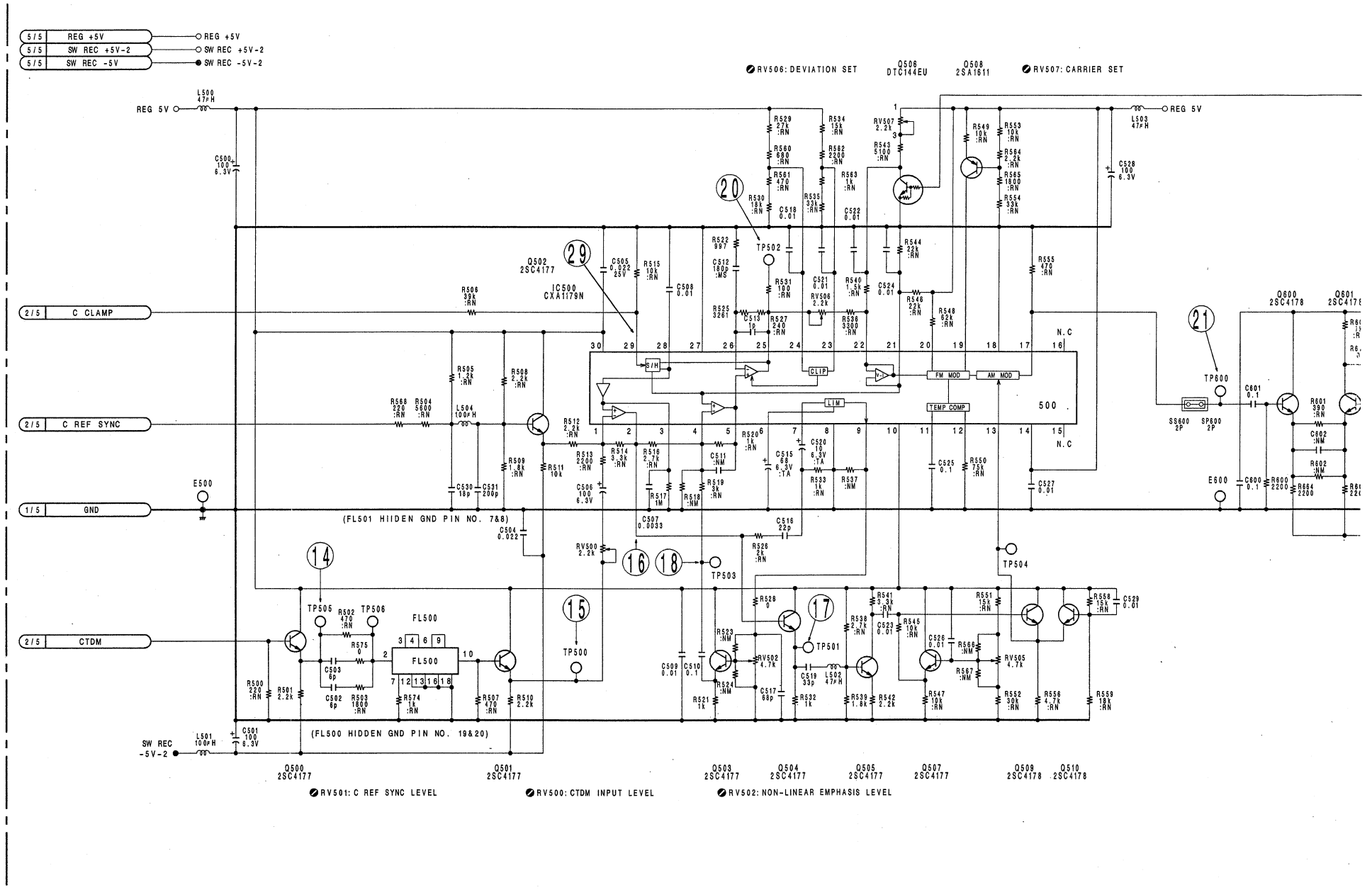
CHROMA A/D, CTDM  
Y/C REF SYNC

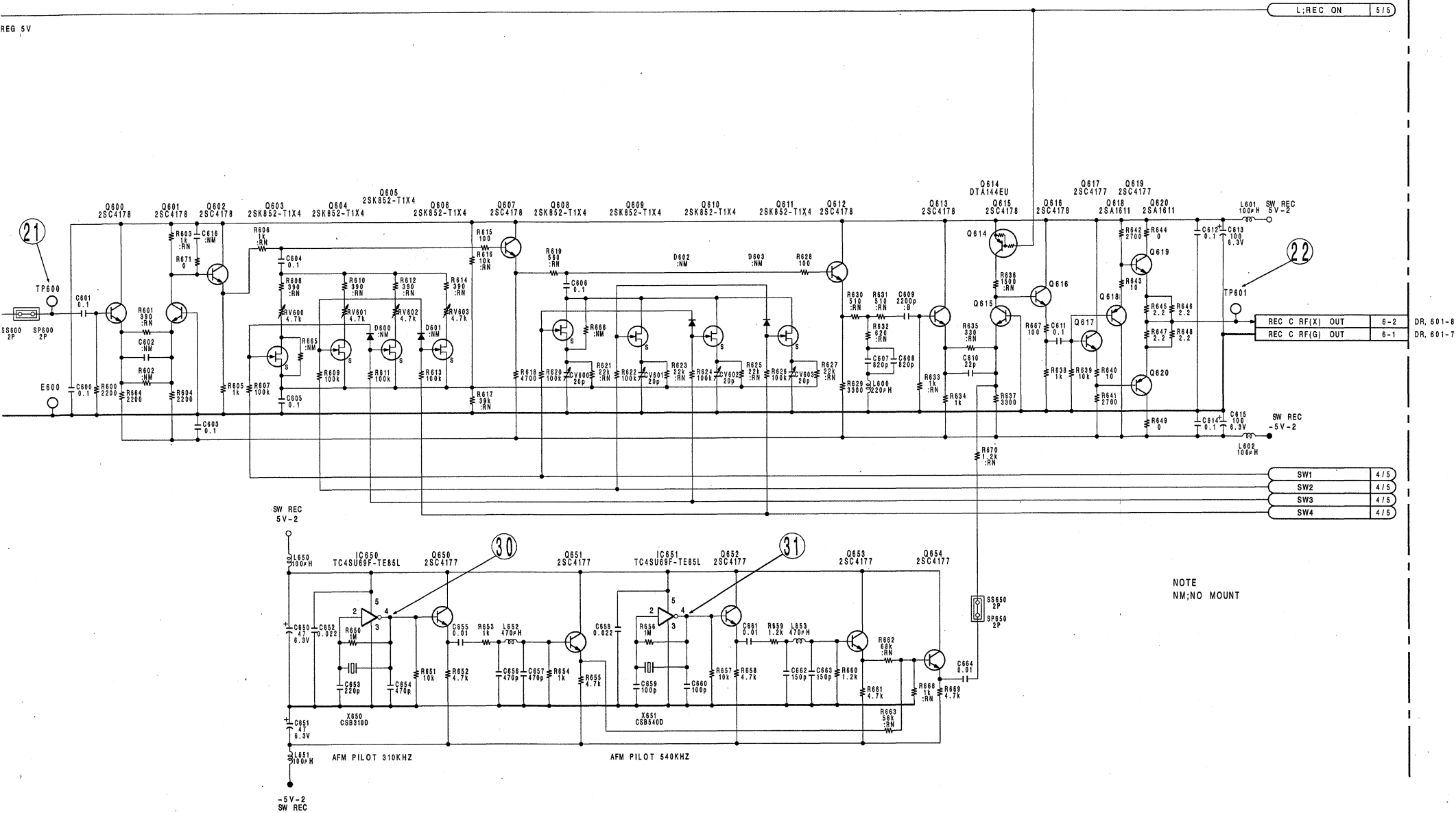




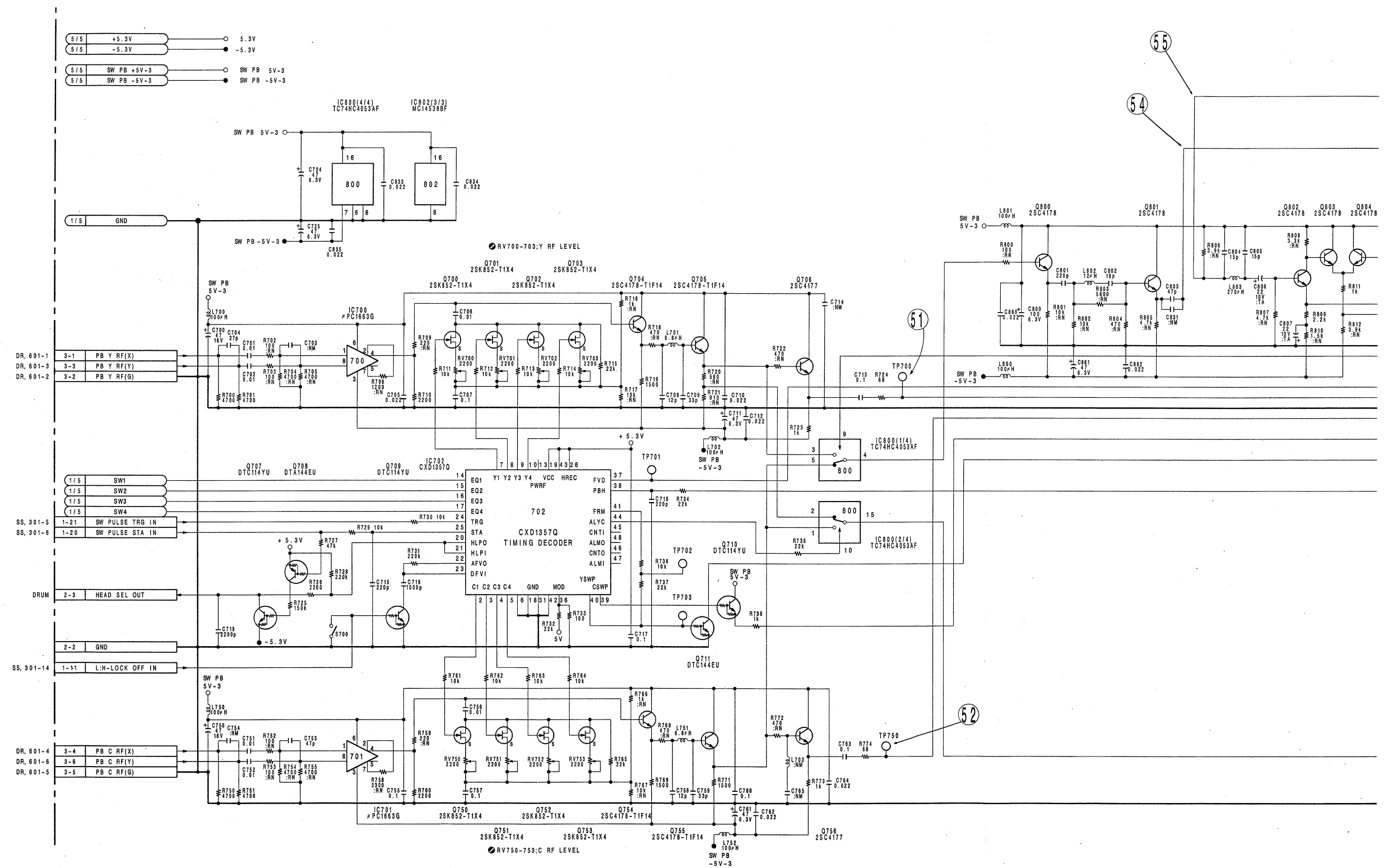
VO-46C BOARD(2/5)  
PVV-3P (EK)

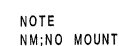
CHROMA REC PROCESS, AFM PILOT





Y/C PB PROCESS, RF ALARM DET

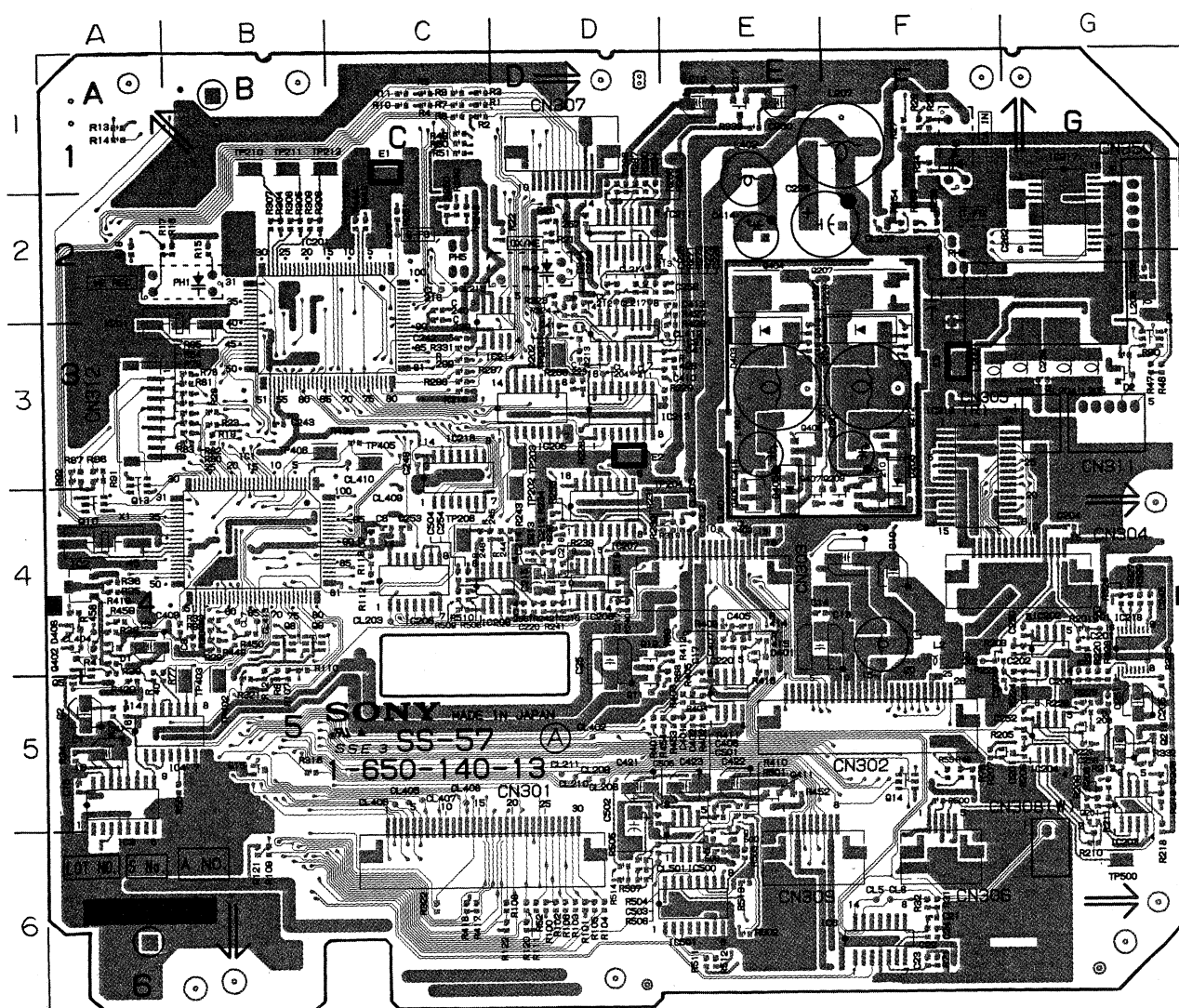




**VO-46C BOARD(4/5)**  
PVV-3P (EK)



## SS-57B/57C BOARD



## SS-57B/57C-A SIDE-

1-650-140-13

PVV-3(J)

PVV-3(UC)

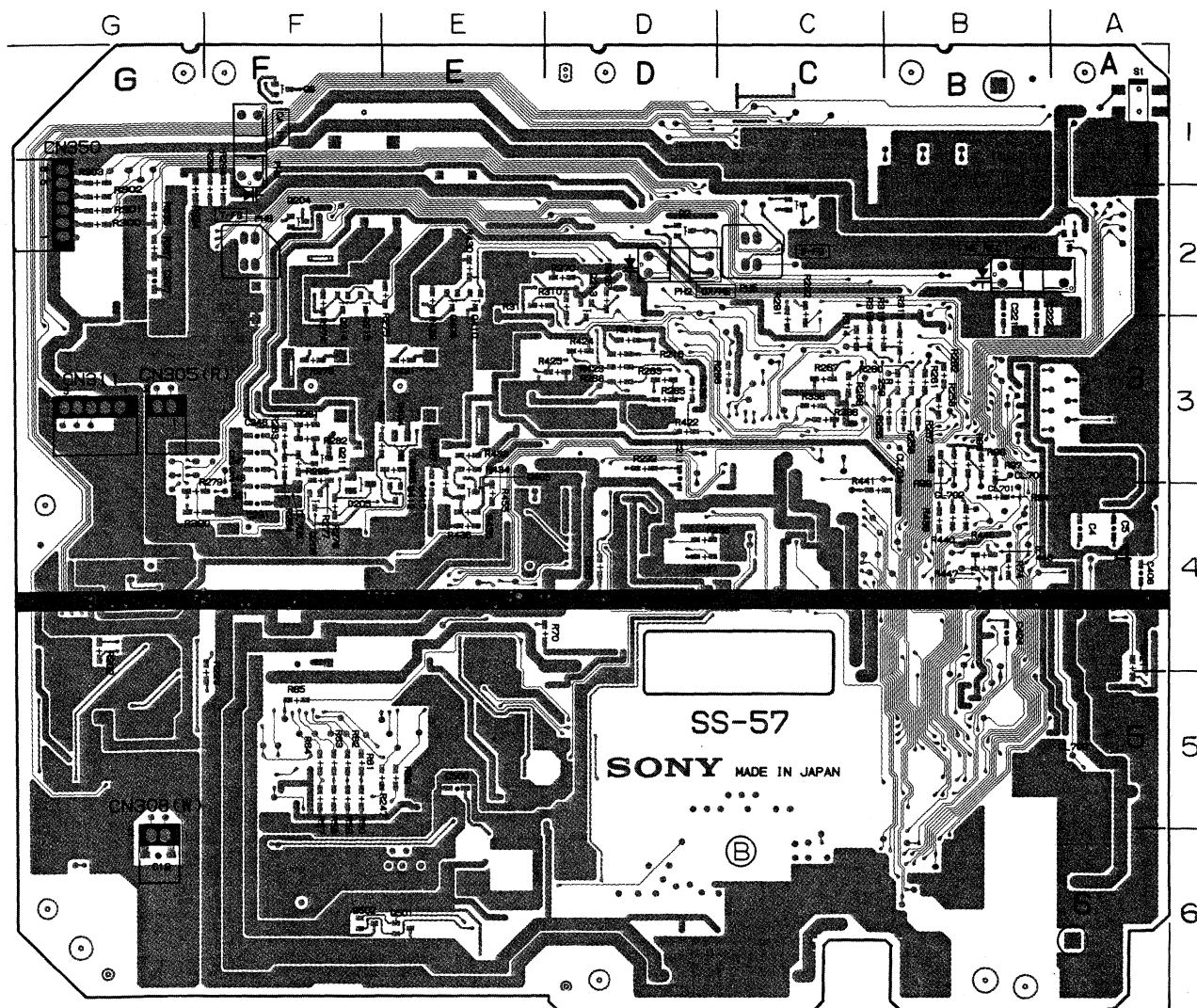
PVV-3P(EK)

SS-57B/57C(1-650-140-13)

## \* ; B SIDE

CN301	C-6	*D205	F-4	IC203	G-5	*PH1	B-2	*Q203	C-2	*Q409	E-2	TP403	B-5
CN302	F-5	D206	F-3	IC204	G-5	*PH2	D-2	*Q204	F-2	*Q410	E-2	TP405	C-3
CN303	E-4	D401	E-4	IC205	D-3	*PH3	F-1	Q207	F-2	Q411	E-5	TP406	B-3
CN304	G-4	D403	E-3	IC206	C-4	*PH5	C-2	*Q208	F-4	*Q412	E-4	TP500	G-6
CN305	G-3	*D404	E-3	IC207	D-4	*PH6	F-2	Q209	F-4	Q500	E-6		
CN306	F-6	D405	E-4	IC208	D-4			Q210	F-4	*Q501	E-6	X1	A-4
CN307	D-1	D406	A-4	IC209	D-4	*Q1	A-2	*Q211	F-3	*Q502	F-6	X201	B-3
CN308	G-6			IC210	D-3	*Q2	D-2	Q212	F-3				
CN309	E-6	E1	C-1	IC211	D-2	*Q3	F-1	*Q213	D-2	*S1	A-1		
CN311	G-3	E2	D-3	IC213	D-3	Q5	A-4	*Q214	F-2				
CN312	G-3	E3	F-3	IC214	D-3	Q6	G-3	*Q215	F-2	TP201	D-3		
CN350	G-2			IC216	C-3	Q8	B-4	Q216	G-5	TP202	D-4		
		IC1	B-4	IC217	G-2	Q9	B-4	Q217	E-1	TP203	D-3		
D1	A-4	IC2	A-4	IC218	G-4	Q10	A-3	Q402	A-4	TP204	E-4		
D2	G-3	IC3	A-5	IC219	F-3	Q11	D-5	Q404	E-2	TP206	C-4		
D201	G-5	IC4	B-5	IC220	E-5	Q12	D-4	*Q405	E-4	TP210	B-1		
D202	D-3	IC6	F-6	IC500	E-6	Q13	A-3	Q406	E-4	TP211	B-1		
D203	G-5	IC201	C-3	IC501	E-6	Q14	F-5	Q407	E-4	TP212	C-1		
D204	F-3	IC202	G-4			Q201	G-6	Q408	E-3	TP402	B-5		

## \* ; B SIDE



SS-57B/57C-B SIDE-

1-650-140-13

PVV-3(J)

PVV-3(UC)

PVV-3P(EK)

SS-57B/57C(1-650-140-13)

## \*; B SIDE

CN301	C-6	*D205	F-4	IC203	G-5	*PH1	B-2	*Q203	C-2	*Q409	E-2	TP403	B-5
CN302	F-5	D206	F-3	IC204	G-5	*PH2	D-2	*Q204	F-2	*Q410	E-2	TP405	C-3
CN303	E-4	D401	E-4	IC205	D-3	*PH3	F-1	Q207	F-2	Q411	E-5	TP406	B-3
CN304	G-4	D403	E-3	IC206	C-4	*PH5	C-2	*Q208	F-4	*Q412	E-4	TP500	G-6
CN305	G-3	*D404	E-3	IC207	D-4	*PH6	F-2	Q209	F-4	Q500	E-6		
CN306	F-6	D405	E-4	IC208	D-4			Q210	F-4	*Q501	E-6	X1	A-4
CN307	D-1	D406	A-4	IC209	D-4	*Q1	A-2	*Q211	F-3	*Q502	F-6	X201	B-3
CN308	G-6			IC210	D-3	*Q2	D-2	Q212	F-3				
CN309	E-6	E1	C-1	IC211	D-2	*Q3	F-1	*Q213	D-2	*S1	A-1	*; B SIDE	
CN311	G-3	E2	D-3	IC213	D-3	Q5	A-4	*Q214	F-2				
CN312	G-3	E3	F-3	IC214	D-3	Q6	G-3	*Q215	F-2	TP201	D-3		
CN350	G-2			IC216	C-3	Q8	B-4	Q216	G-5	TP202	D-4		
		IC1	B-4	IC217	G-2	Q9	B-4	Q217	E-1	TP203	D-3		
D1	A-4	IC2	A-4	IC218	G-4	Q10	A-3	Q402	A-4	TP204	E-4		
D2	G-3	IC3	A-5	IC219	F-3	Q11	D-5	Q404	E-2	TP206	C-4		
D201	G-5	IC4	B-5	IC220	E-5	Q12	D-4	*Q405	E-4	TP210	B-1		
D202	D-3	IC6	F-6	IC500	E-6	Q13	A-3	Q406	E-4	TP211	B-1		
D203	G-5	IC201	C-3	IC501	E-6	Q14	F-5	Q407	E-4	TP212	C-1		
D204	F-3	IC202	G-4			Q201	G-6	Q408	E-3	TP402	B-5		

 PVV-3 (J)  
 PVV-3 (UC)  
 PVV-3P (EK)

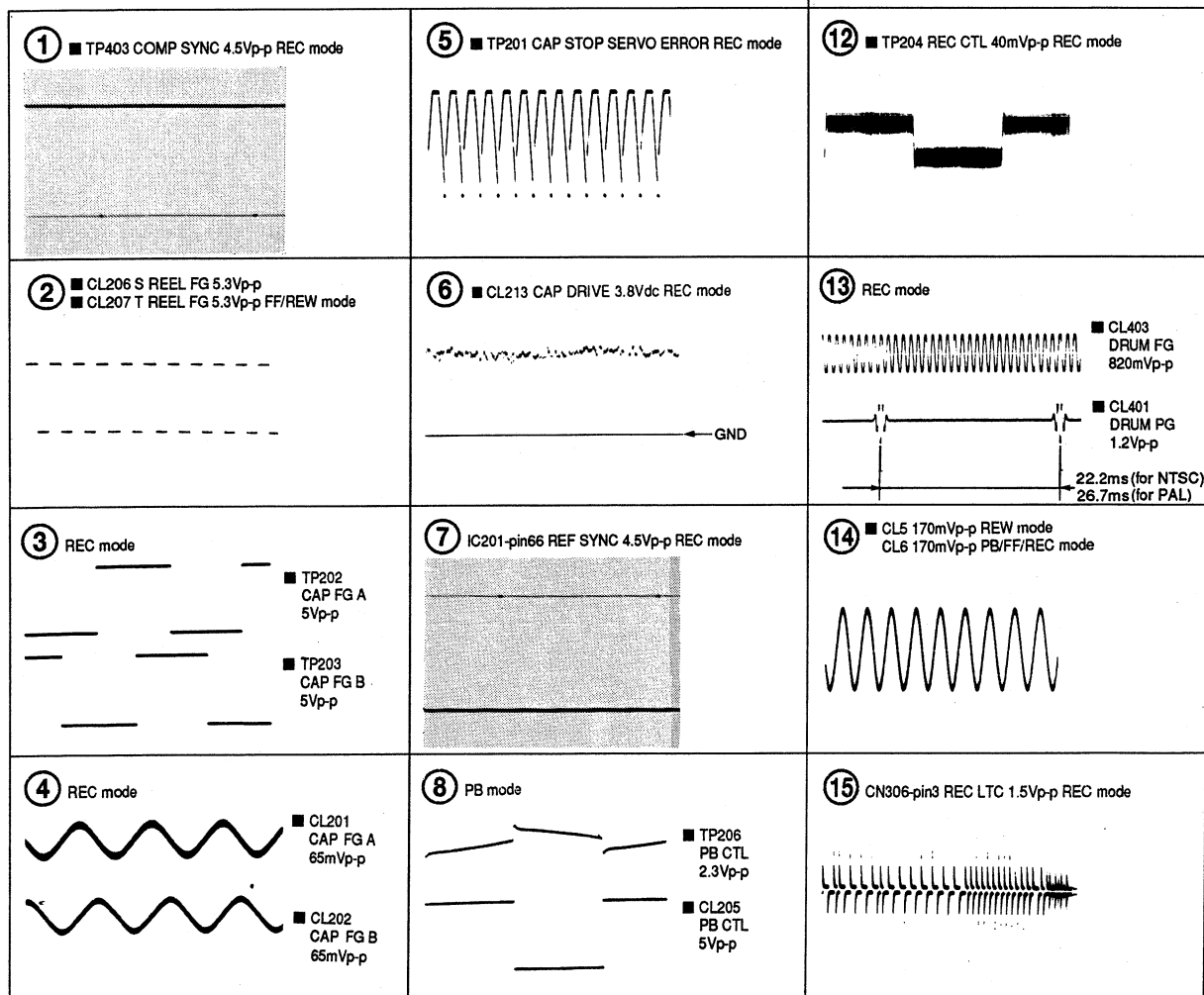
## SERVO &amp; SYSTEM CONTROL BLOCK

RECモード...75% COLOR BARSの記録状態。

PBモード.....アライメントテープCR5-1BのCOLOR BARS部分の再生状態。

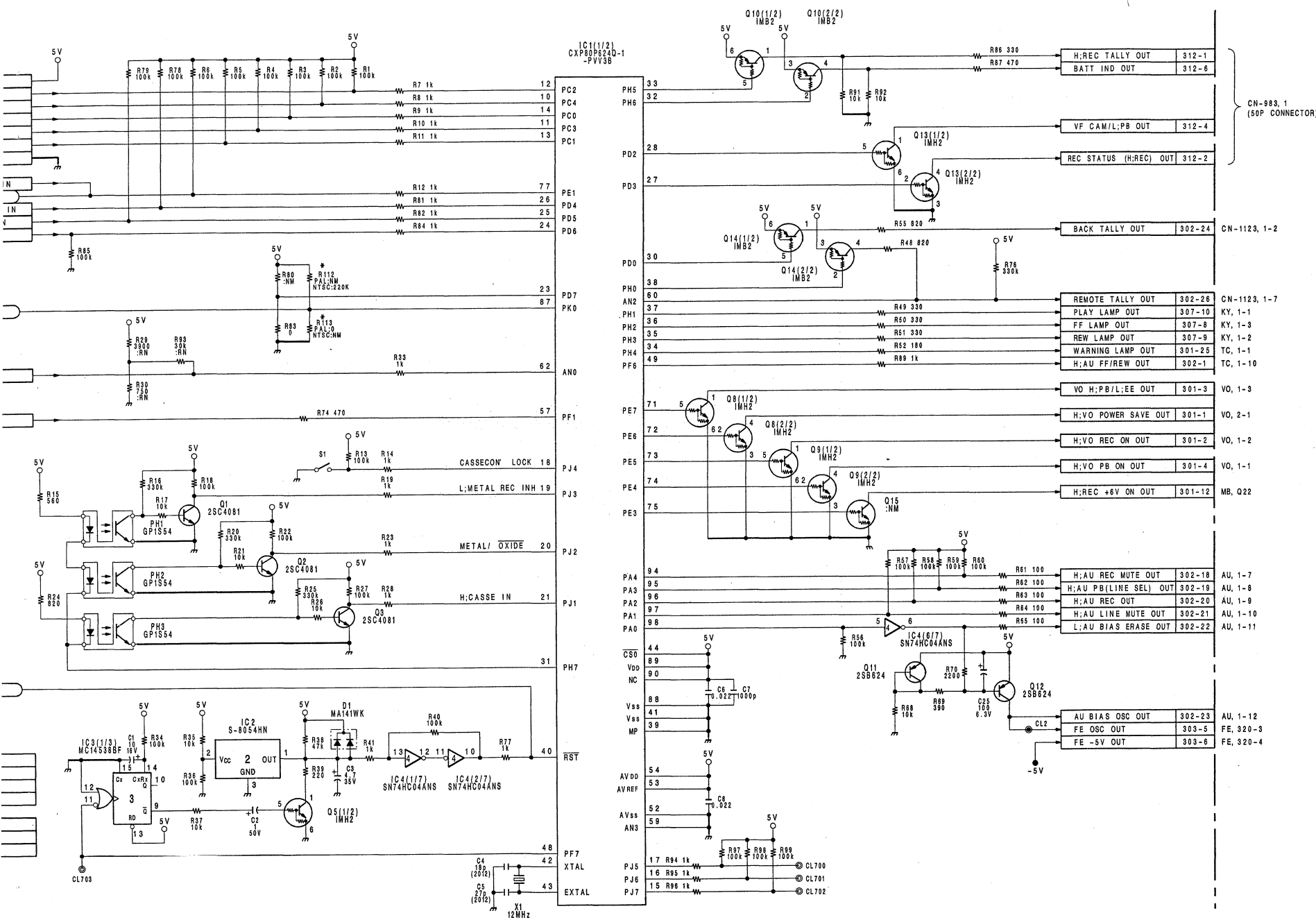
REC mode ..... Record the 75% color bars signal.

PB mode ..... Play back the color bars signal portion of the alignment tape CR5-1B (for NTSC) / CR5-1BPS (for PAL).

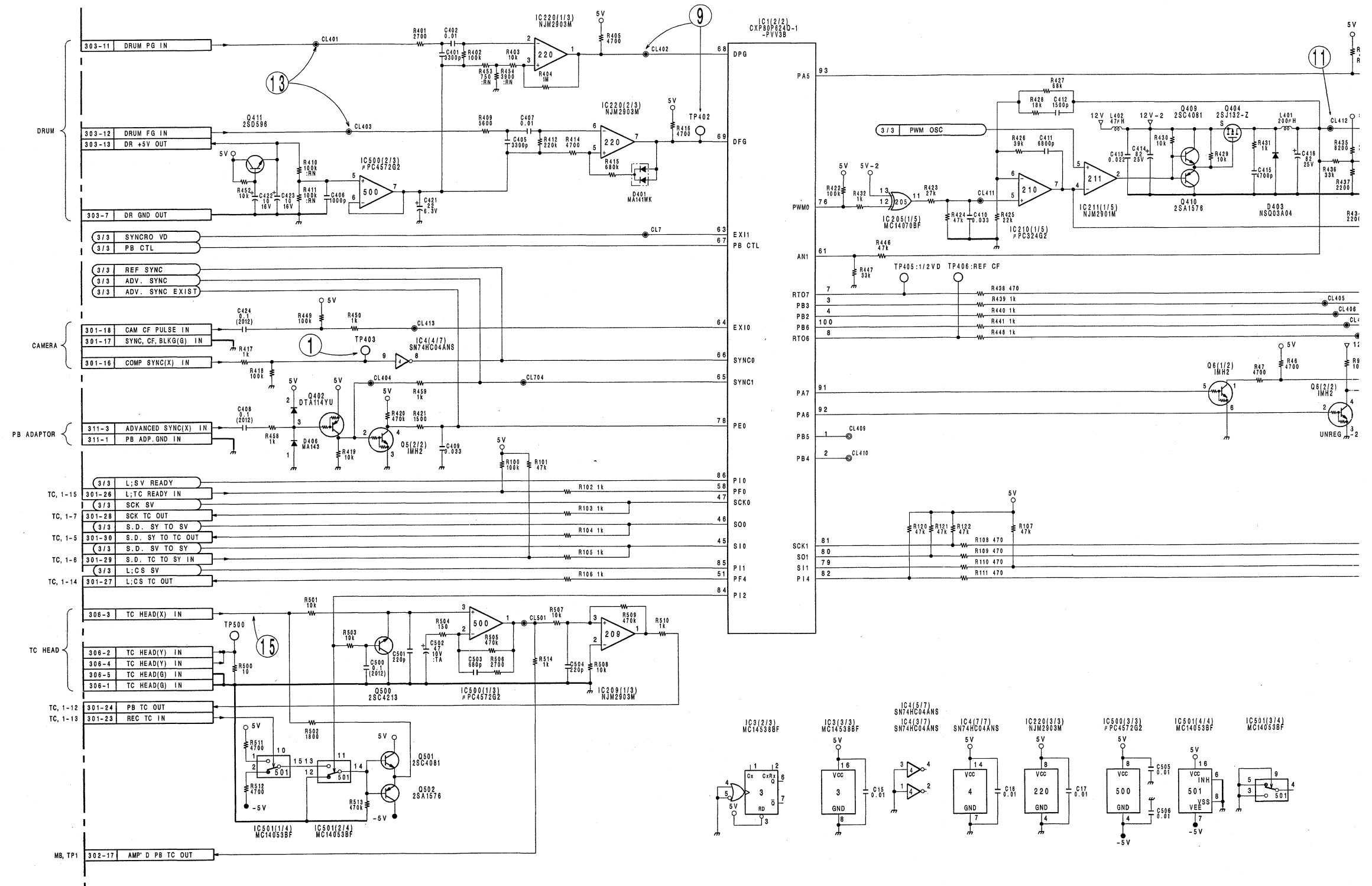


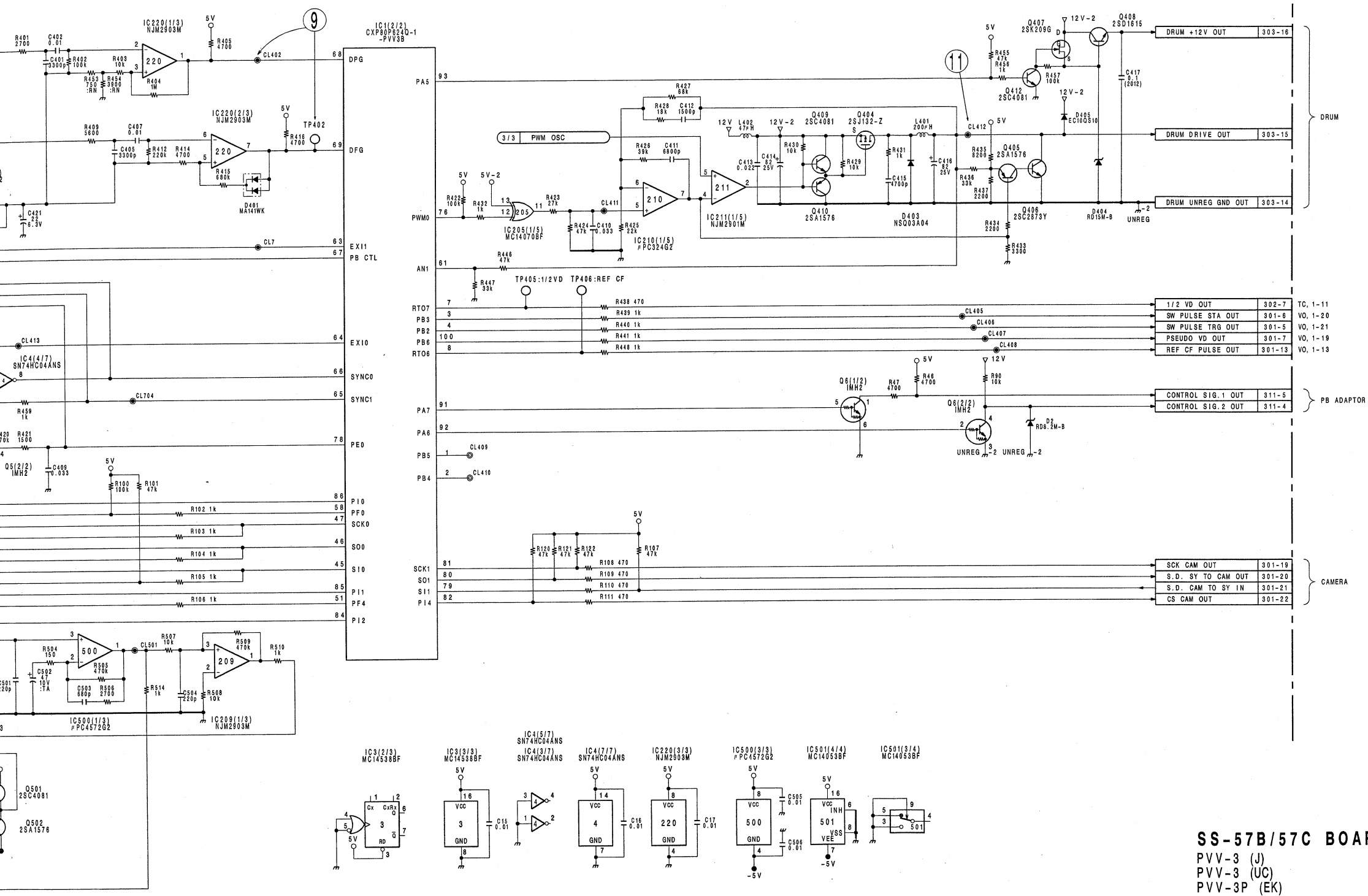
**A**





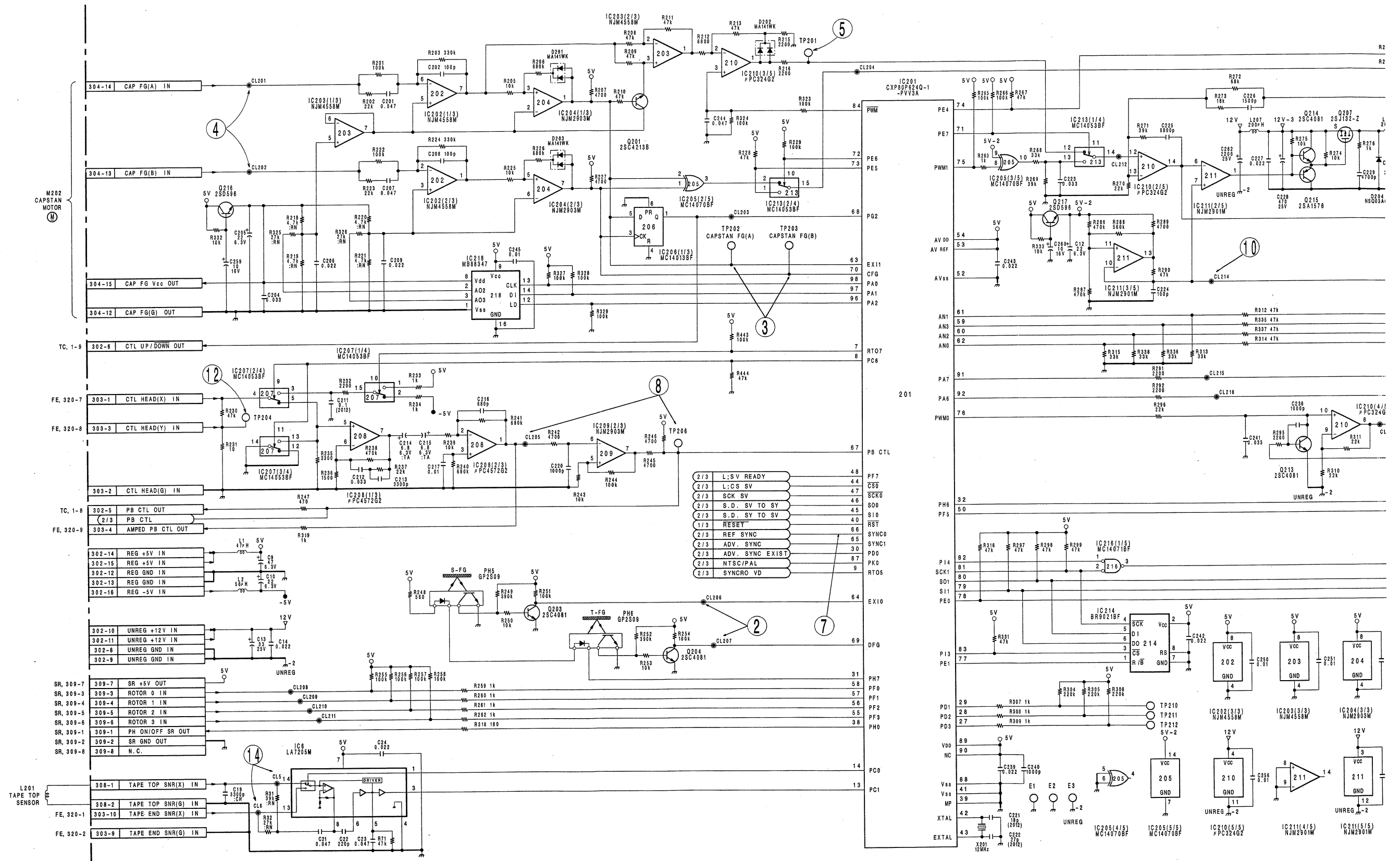
SS-57B/57C BOARD(1/3)  
PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

SY/SV CPU, DRUM MOTOR DRIVER  
LTC REC/PB



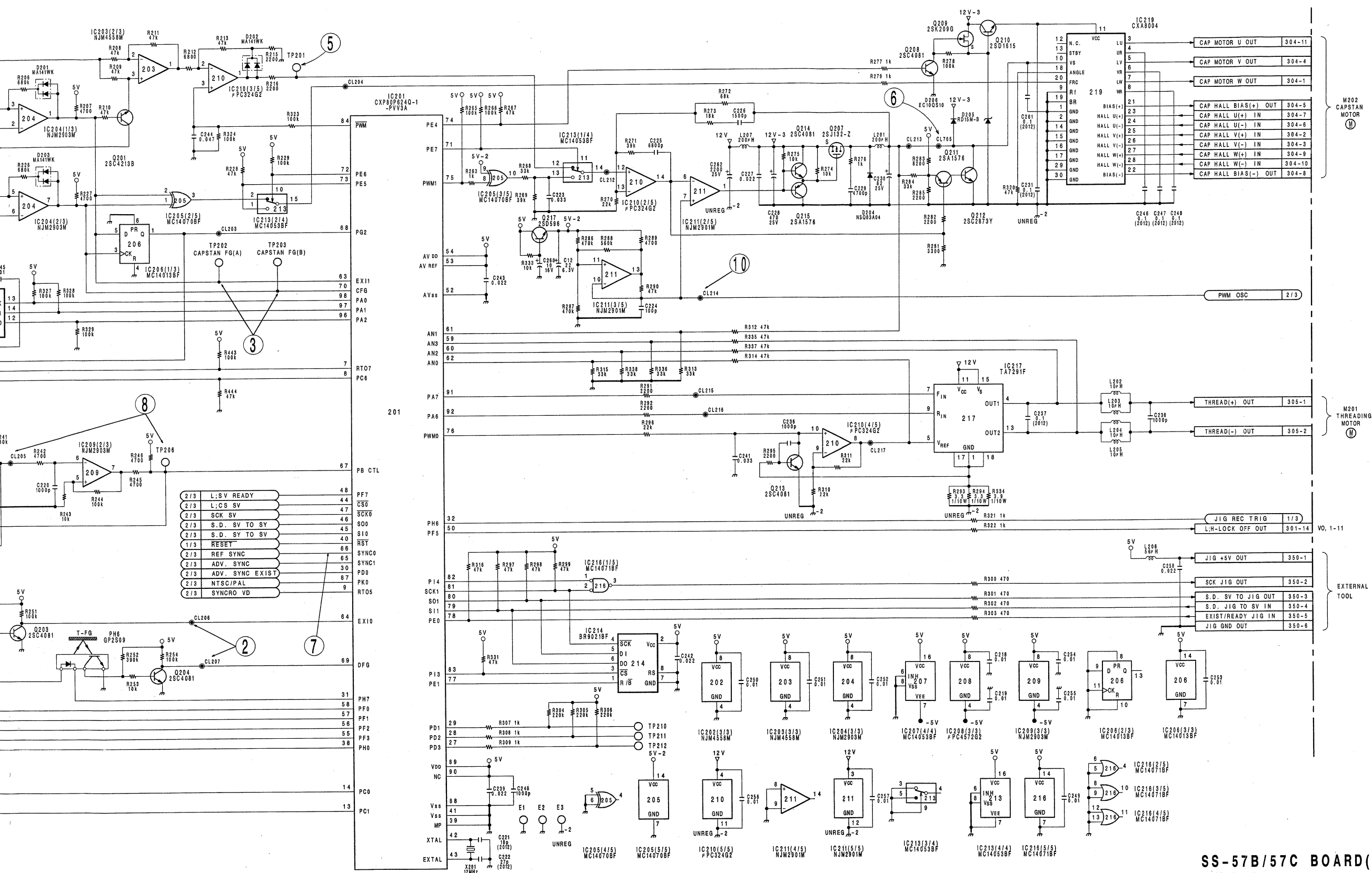


SV CPU, CTL REC/PB  
CAP/THREAD MOTOR DRIVER

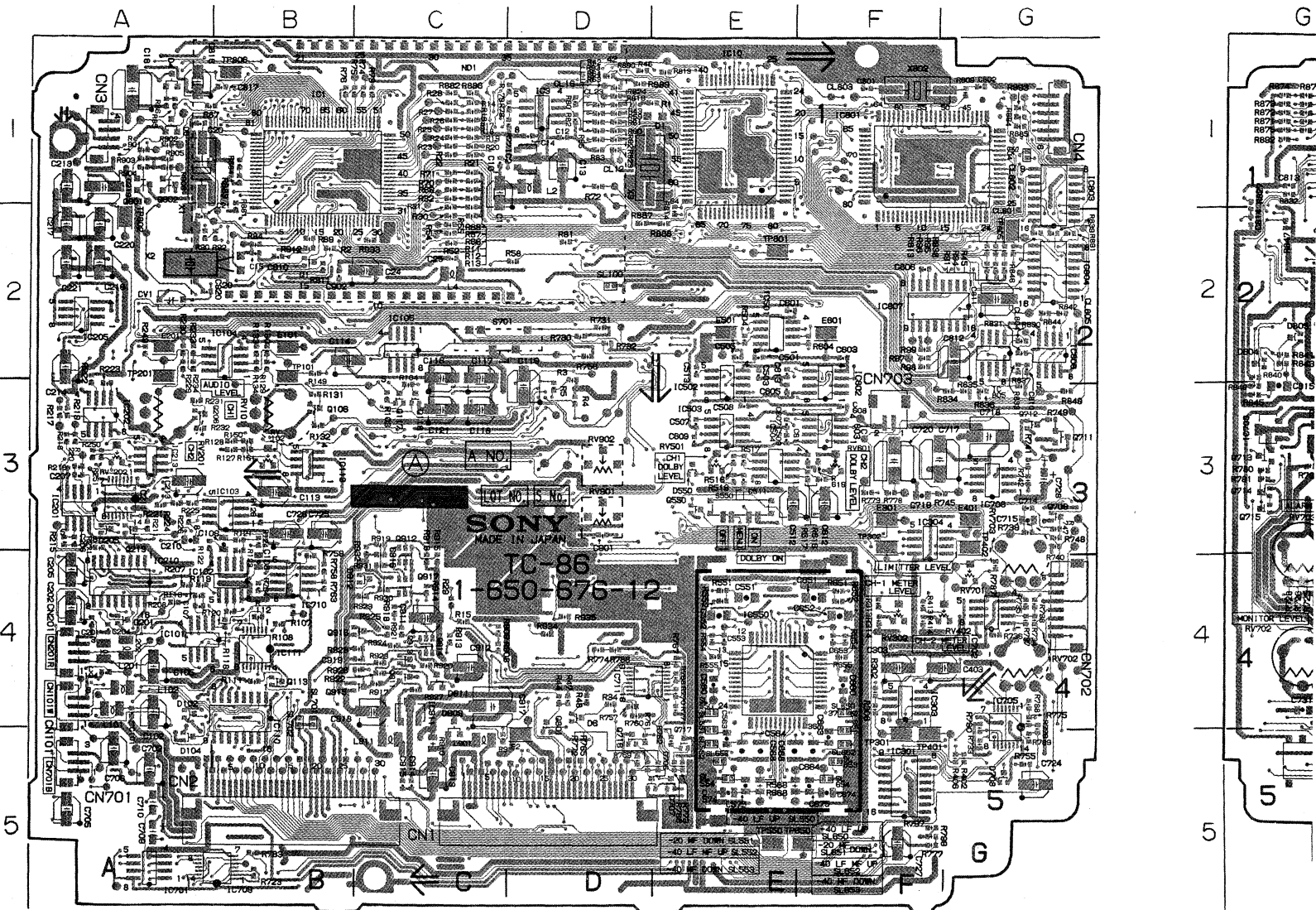


PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)





TC-86B/86C BOARD



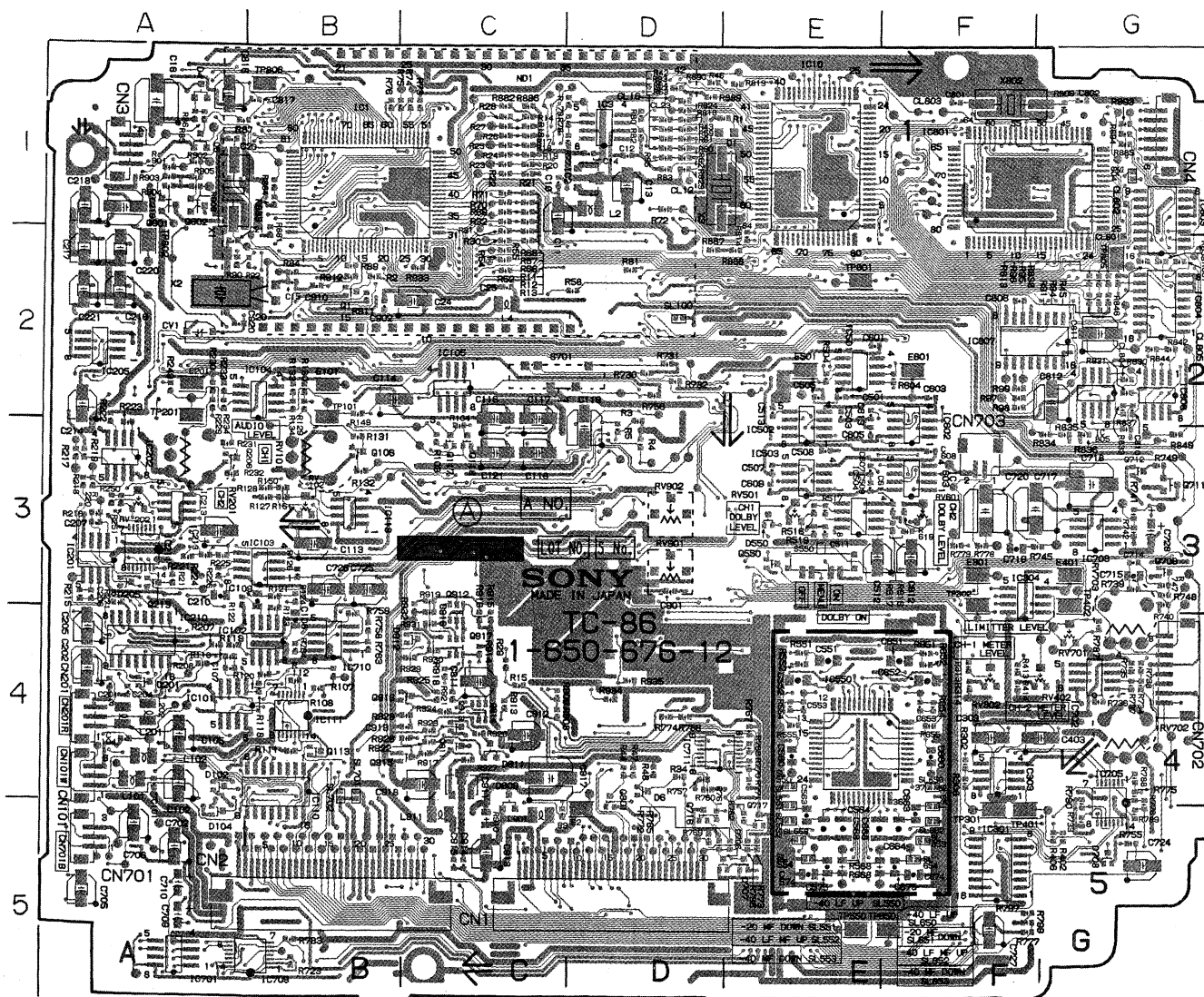
TC-86B/86C-A SIDE-  
1-650-676-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

TC-86B/86C(1-650-676-12)

\* ; B SIDE

*BT911	C-5	*D105	A-4	*D906	C-1	IC101	A-4	IC504	E-3	*Q101	A-4	*Q208
		D201	A-4	*D907	B-2	IC102	B-4	IC550	E-4	*Q102	A-4	*Q209
CN1	D-5	*D202	A-4	*D908	B-1	IC103	B-3	IC602	F-3	*Q104	A-4	*Q210
CN2	B-5	*D203	A-2	D909	C-4	IC104	B-2	IC603	F-3	Q106	B-3	*Q211
CN3	A-1	*D204	A-4	D911	C-4	IC105	C-2	IC701	A-5	*Q107	C-3	Q213
CN101	A-4	D205	A-3	D912	C-4	IC110	B-4	IC702	G-4	*Q108	C-2	*Q214
CN201	A-4	D550	E-3			IC111	B-4	*IC703	G-3	*Q109	C-2	*Q215
CN701	A-5	*D701	A-5	E2	D-5	IC113	B-3	IC705	G-4	*Q110	C-3	*Q216
CN703	F-3	*D702	A-5	E101	B-2	IC201	A-3	IC708	G-3	*Q111	C-3	*Q217
		*D704	B-5	E201	A-2	IC202	A-3	IC801	F-1	Q113	B-4	*Q218
CV1	A-2	*D705	B-5	E301	F-3	IC205	A-2	*IC802	F-1	*Q114	B-4	*Q301
		*D802	G-2	E401	G-3	IC210	A-4	IC803	G-1	*Q115	B-4	*Q302
*D1	D-1	*D803	G-2	E501	E-2	IC211	A-3	IC804	G-2	*Q116	B-3	*Q401
D4	A-1	*D804	G-2	E601	F-2	IC213	A-3	IC805	G-2	Q117	C-3	*Q402
D5	A-1	*D805	G-2	*E701	D-5	IC301	F-5	IC806	G-2	Q118	C-3	Q550
D6	D-4	*D901	D-2			IC303	F-4	IC807	F-2	*Q201	A-4	*Q704
*D101	A-5	*D902	D-1	IC1	B-1	IC304	F-3	IC911	C-4	*Q202	A-4	*Q705
D102	A-4	*D903	C-2	IC2	D-1	IC501	E-2			*Q204	A-4	*Q706
*D103	C-2	*D904	C-1	IC3	D-1	IC502	E-3	Q1	B-2	Q206	A-3	*Q707
D104	A-5	*D905	C-2	IC10	E-1	IC503	E-3	*Q2	A-1	*Q207	A-2	*Q708

## TC-86B/86C BOARD



TC-86B/86C-A SIDE-

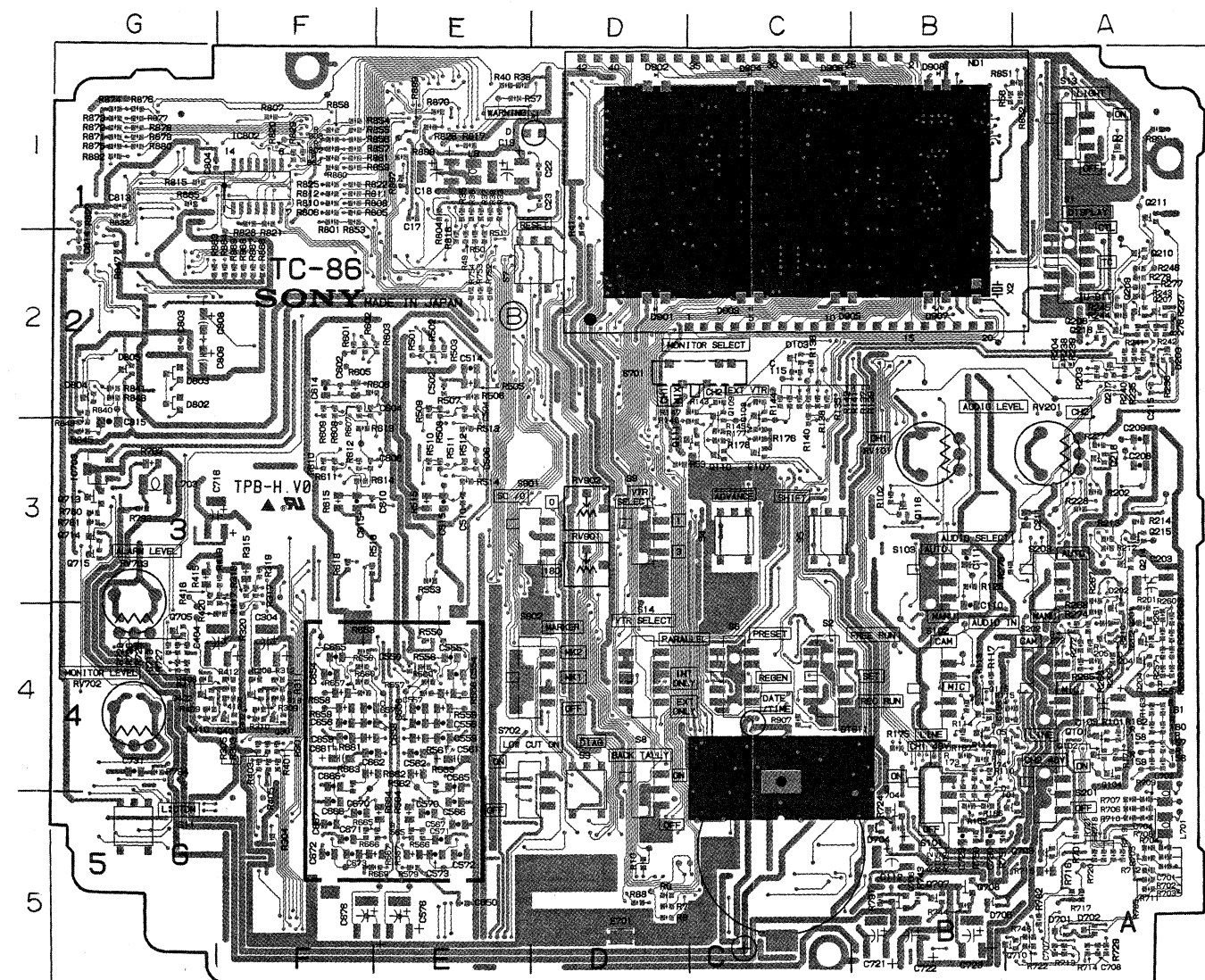
1-650-676-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

TC-86B/86C(1-650-676-12)

\* ; B SIDE

*BT911	C-5	*D105	A-4	*D906	C-1	IC101	A-4	IC504	E-3	*Q101	A-4
		D201	A-4	*D907	B-2	IC102	B-4	IC550	E-4	*Q102	A-4
CN1	D-5	*D202	A-4	*D908	B-1	IC103	B-3	IC602	F-3	*Q104	A-4
CN2	B-5	*D203	A-2	D909	C-4	IC104	B-2	IC603	F-3	Q106	B-3
CN3	A-1	*D204	A-4	D911	C-4	IC105	C-2	IC701	A-5	*Q107	C-3
CN101	A-4	D205	A-3	D912	C-4	IC110	B-4	IC702	G-4	*Q108	C-2
CN201	A-4	D550	E-3			IC111	B-4	*IC703	G-3	*Q109	C-2
CN701	A-5	*D701	A-5	E2	D-5	IC113	B-3	IC705	G-4	*Q110	C-3
CN703	F-3	*D702	A-5	E101	B-2	IC201	A-3	IC708	G-3	*Q111	C-3
		*D704	B-5	E201	A-2	IC202	A-3	IC801	F-1	Q113	B-4
CV1	A-2	*D705	B-5	E301	F-3	IC205	A-2	*IC802	F-1	*Q114	B-4
		*D802	G-2	E401	G-3	IC210	A-4	IC803	G-1	*Q115	B-4
*D1	D-1	*D803	G-2	E501	E-2	IC211	A-3	IC804	G-2	*Q116	B-3
D4	A-1	*D804	G-2	E601	F-2	IC213	A-3	IC805	G-2	Q117	C-3
D5	A-1	*D805	G-2	*E701	D-5	IC301	F-5	IC806	G-2	Q118	C-3
D6	D-4	*D901	D-2			IC303	F-4	IC807	F-2	*Q201	A-4
*D101	A-5	*D902	D-1	IC1	B-1	IC304	F-3	IC911	C-4	*Q202	A-4
D102	A-4	*D903	C-2	IC2	D-1	IC501	E-2			*Q204	A-4
*D103	C-2	*D904	C-1	IC3	D-1	IC502	E-3	Q1	B-2	Q206	A-3
D104	A-5	*D905	C-2	IC10	E-1	IC503	E-3	*Q2	A-1	*Q207	A-3

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TC-86B/86C-B SIDE-

1-650-676-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

* Q208	A-2	Q709	G-3	RV202	A-3	* S201	A-5	X2	B-2
* Q209	A-2	Q711	G-3	RV302	F-4	* S202	A-4	X3	D-1
* Q210	A-2	Q712	G-3	RV402	F-4	* S203	A-3	X802	F-1
* Q211	A-1	* Q713	G-3	RV701	G-4	S550	E-3		
Q213	A-3	* Q714	G-3	* RV702	G-4	* S701	C-2	* ; B SIDE	
* Q214	A-3	* Q715	G-3	* RV703	G-3				
* Q215	A-3	Q801	D-4			TP101	B-2		
* Q216	A-3	Q901	A-1	* S1	A-2	TP201	A-2		
* Q217	A-2	Q902	A-1	* S2	C-4	TP301	F-5		
* Q218	A-2	Q911	C-4	* S3	D-4	TP302	F-3		
* Q301	F-4	Q912	C-4	* S4	C-3	TP401	F-5		
* Q302	F-4	Q913	C-4	* S5	C-3	TP402	G-3		
* Q401	F-4	Q914	C-4	* S6	C-4	TP550	E-5		
* Q402	G-4	Q915	C-4	* S7	D-2	TP650	F-5		
Q550	E-3	Q916	C-4	* S8	D-4	TP801	E-2		
* Q704	B-5	Q917	C-4	* S11	G-5	TP802	A-2		
* Q705	G-4			* S13	A-1	TP805	G-2		
* Q706	B-5	* RV101	B-3	* S101	B-5	TP806	B-1		
* Q707	B-5	RV102	B-3	* S102	B-4				
* Q708	B-5	* RV201	A-3	* S103	B-3	X1	A-1		

PVV-3 (J)  
 PVV-3 (UC)  
 PVV-3P (EK)

14-22

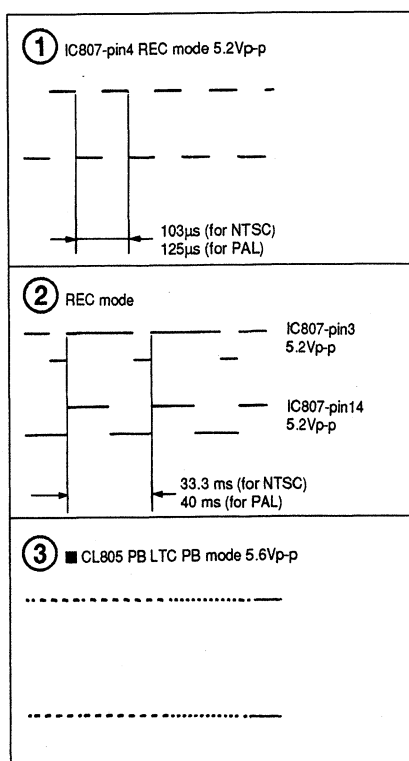
## TC GENERATOR/READER

RECモード ... 75% COLOR BARSの記録状態。

PBモード ..... アライメントテープCR5-1BのCOLOR BARS部分の再生状態。

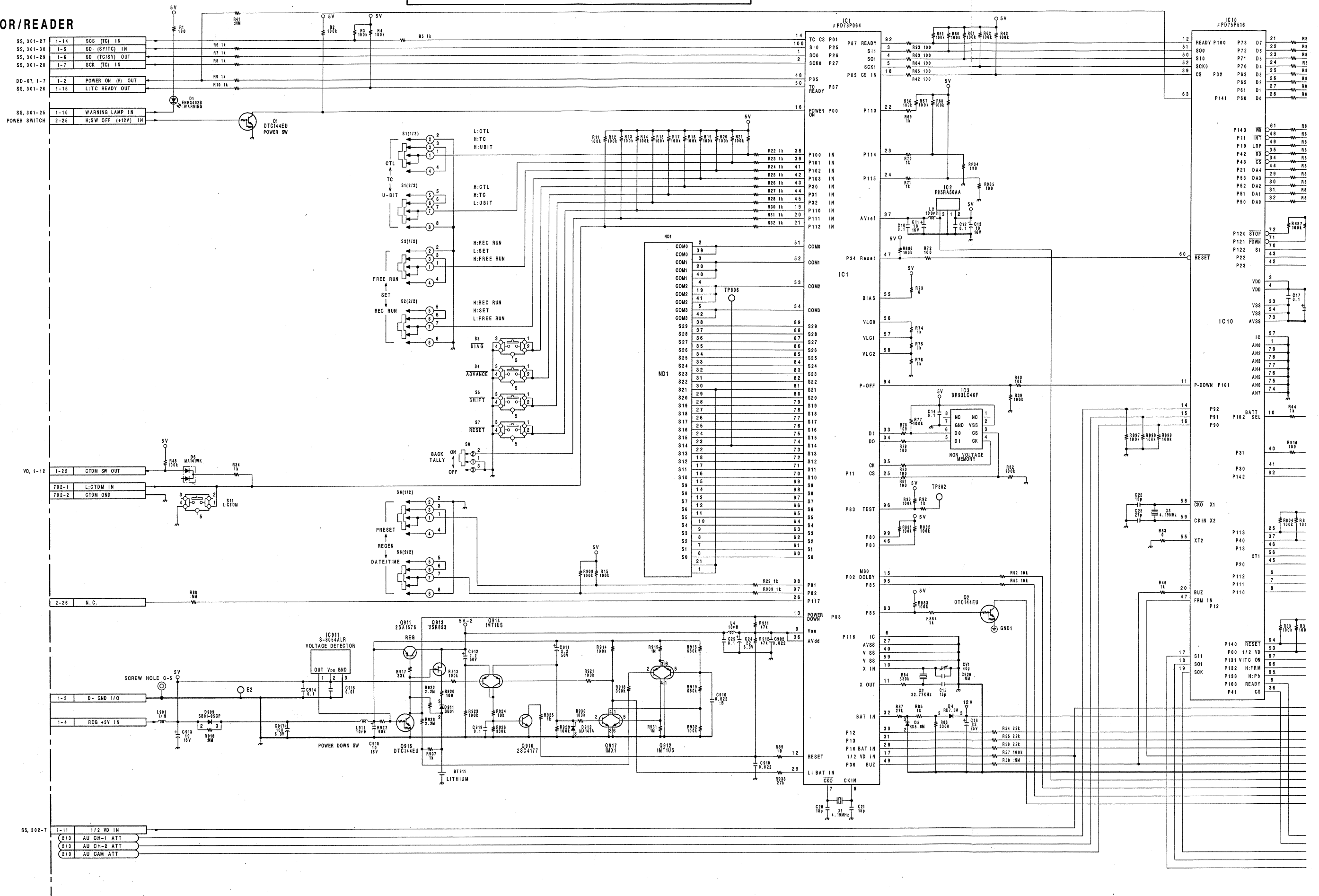
REC mode ..... Record the 75% color bars signal.

PB mode ..... Play back the color bars signal portion of the alignment tape CR5-1B (for NTSC) / CR5-1BPS (for PAL).





TC GENERATOR/READER  
TC SWITCH



PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

14-25

14-25

A

B

C

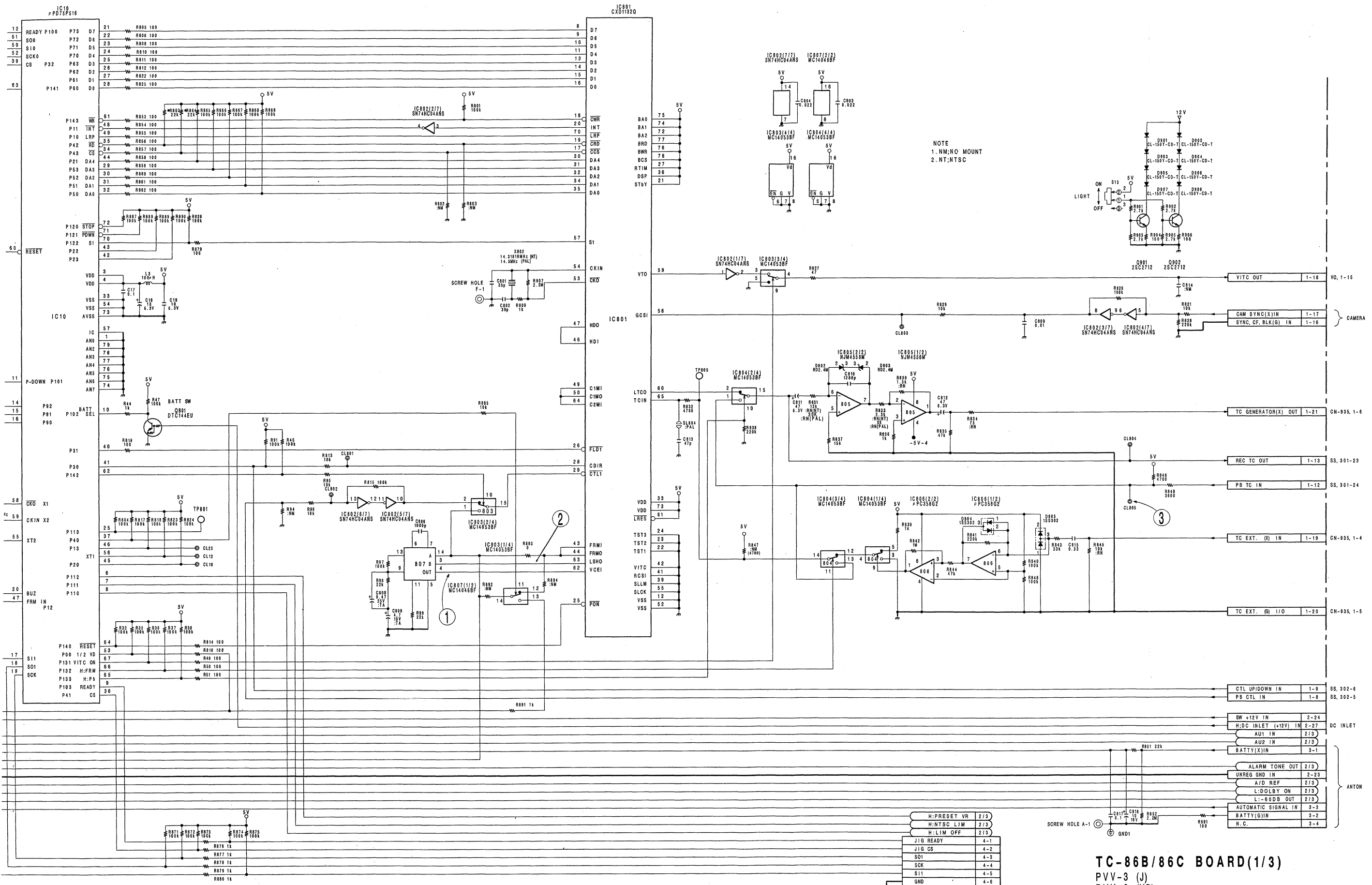
D

E

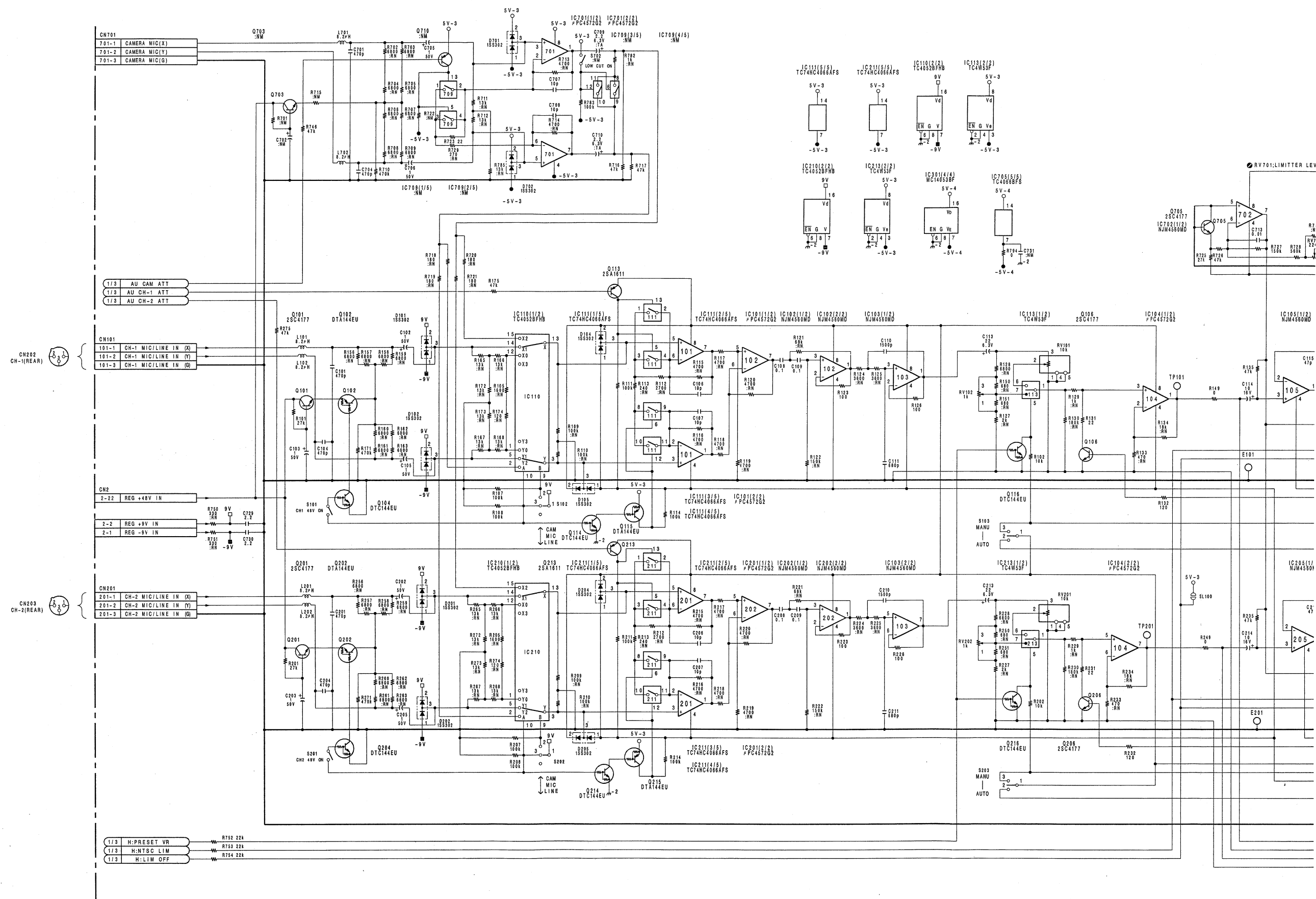
F

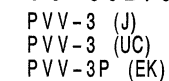
G

H



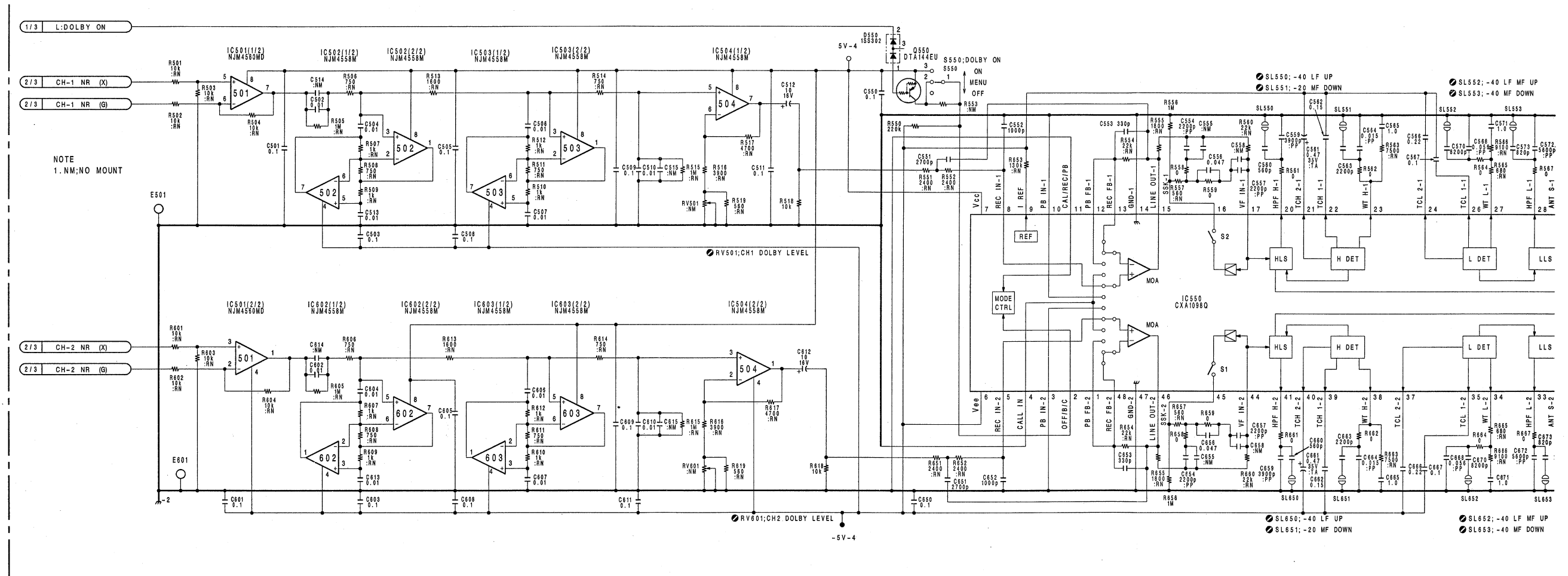
AUDIO REC PROCESS  
AUDIO MONITOR







## AUDIO NOISE REDUCTION



PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

14-27

14-27

A

B

C

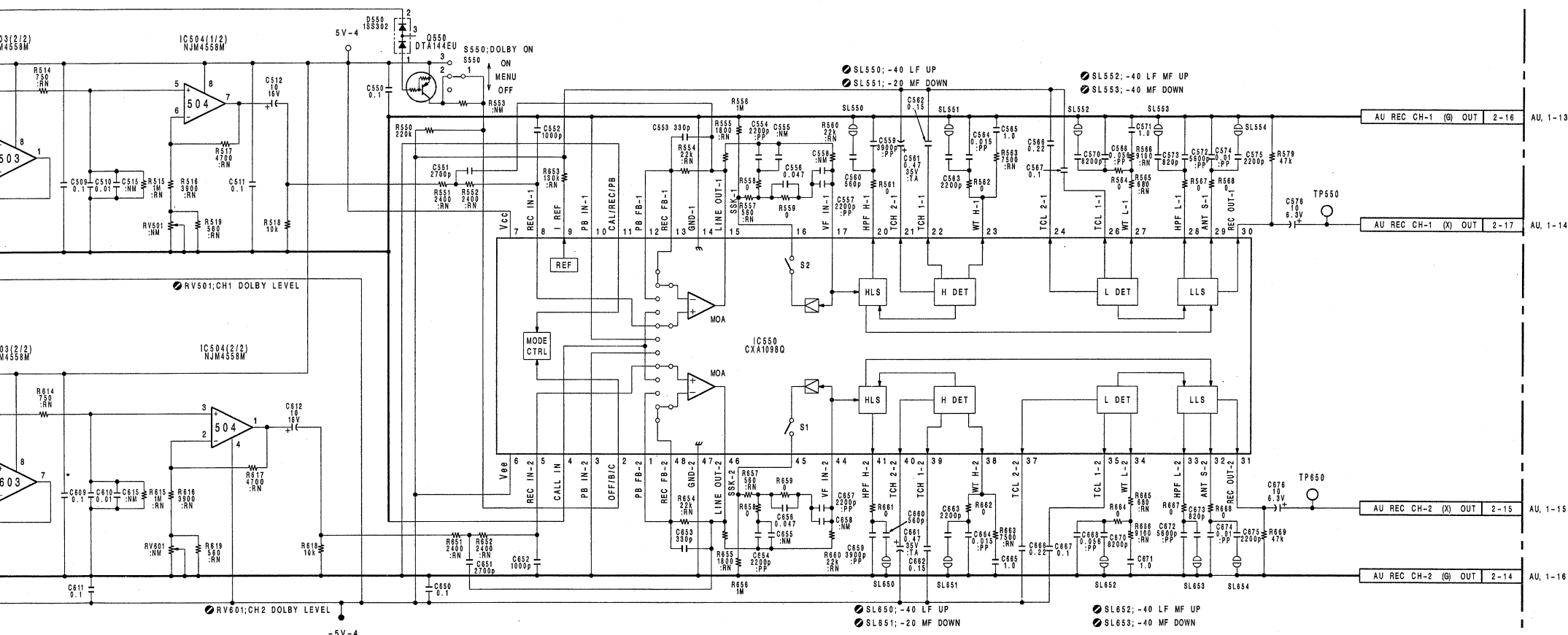
D

E

F

G

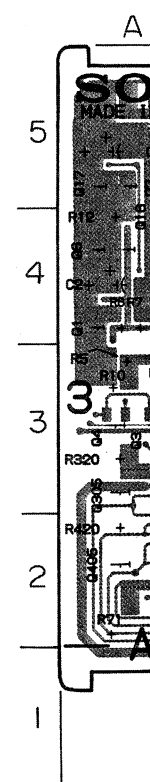
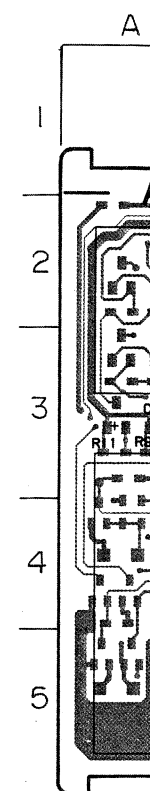
H



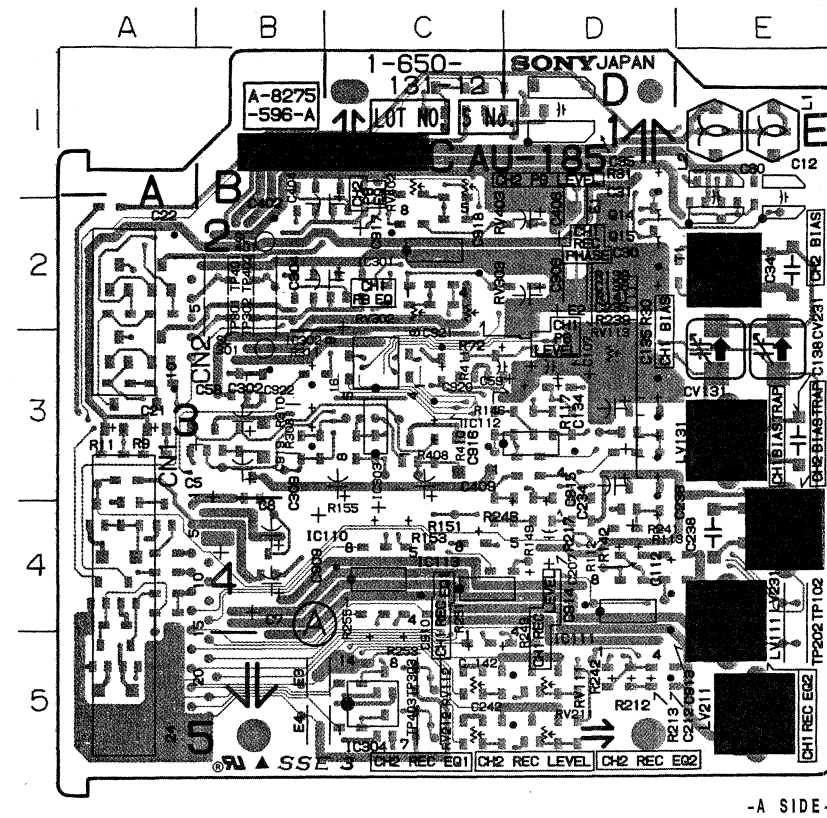
TC-86B/86C BOARD(3/3)

PVV-3 (J)  
 PVV-3 (UC)  
 PVV-3P (EK)

AU-185/



## AU-185/185P BOARD



AU-185/185P(1-650-131-12)

\* ; B SIDE

CN1	A-4	*Q232	D-3
CN2	A-2	*Q302	B-3
		*Q305	A-3
CV131	E-3	*Q306	A-3
CV231	E-3	*Q307	C-2
		*Q402	C-3
*D1	E-1	*Q405	A-2
*D301	C-5	*Q406	A-2
*D401	C-5	*Q407	C-2
E1	D-2	RV111	D-5
E2	D-2	RV112	C-5
E3	B-5	RV113	D-3
E4	B-5	RV211	D-5
		RV212	C-5
IC110	C-4	RV302	C-2
IC111	D-4	RV303	C-2
IC112	D-3	RV402	C-1
IC113	C-4	RV403	C-1
IC301	C-2		
IC302	C-3	TP102	E-4
IC303	C-3	TP202	E-5
IC304	C-5	TP301	B-2
		TP302	B-2
		TP303	C-5
LV111	E-4	TP401	B-2
LV131	E-3	TP402	B-2
LV211	E-5	TP403	C-5
LV231	E-4		

\*Q1 A-4 T1 E-2

\*Q2 A-4

\*Q3 A-3

\*Q4 A-3

\*Q6 A-4

\*Q7 A-5

Q14 D-2

Q15 D-2

\*Q16 A-4

\*Q17 A-5

\*Q54 B-3

\*Q55 C-3

\*Q56 E-1

\*Q59 B-3

\*Q60 B-4

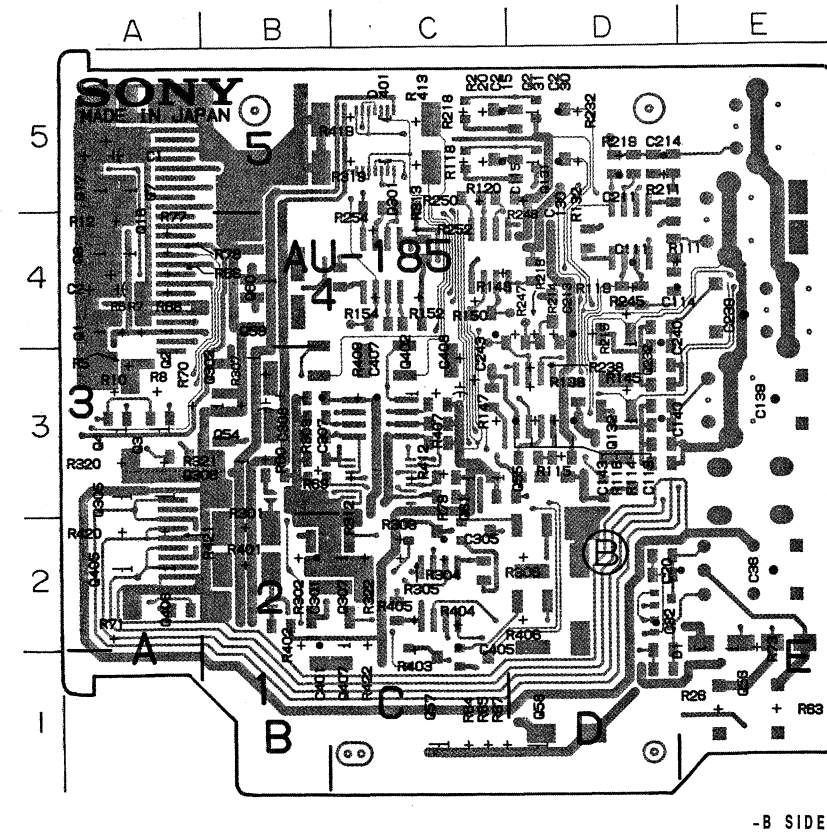
\*Q61 C-3

\*Q131 D-5

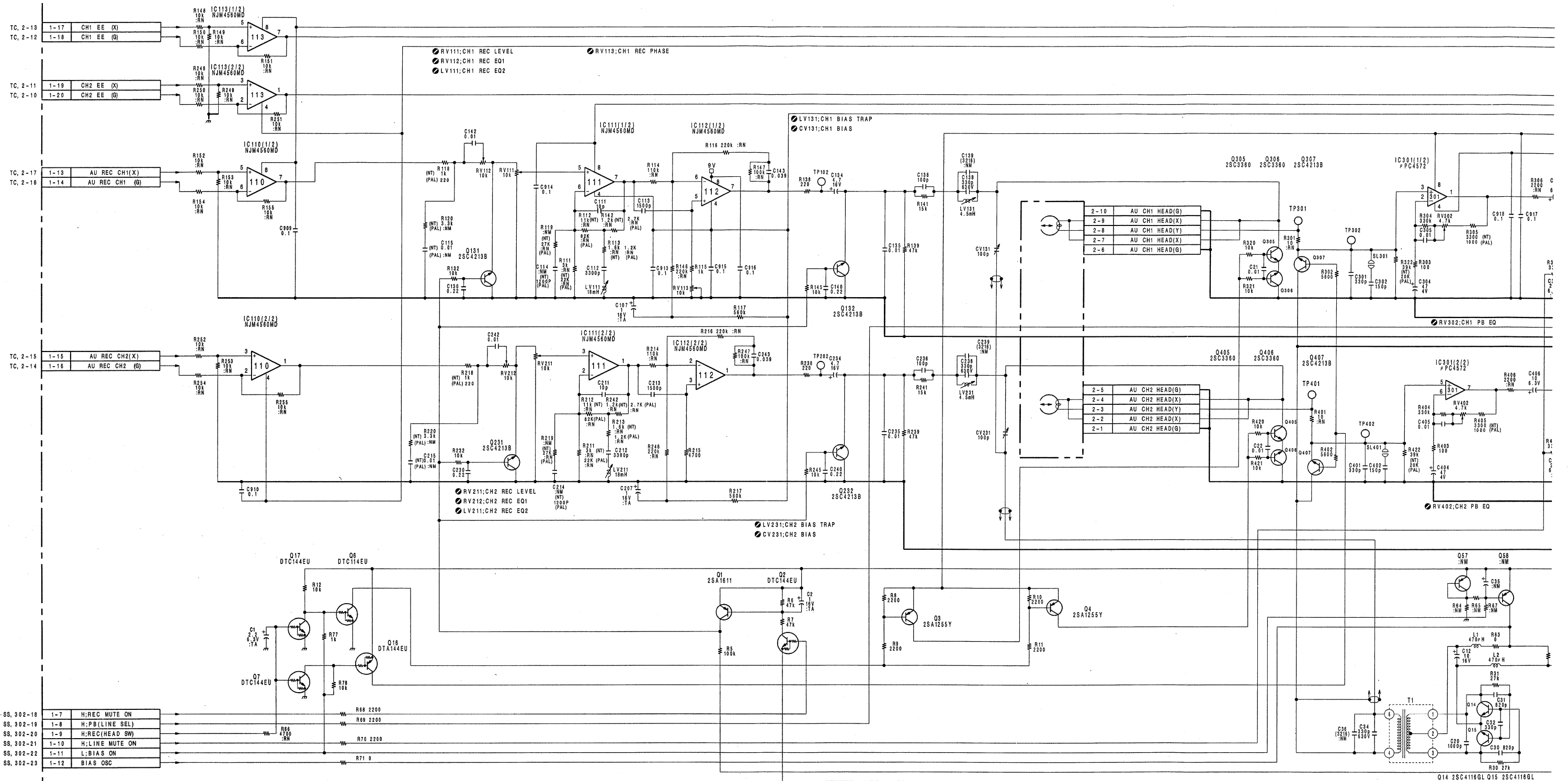
\*Q132 D-3

\*Q231 D-5

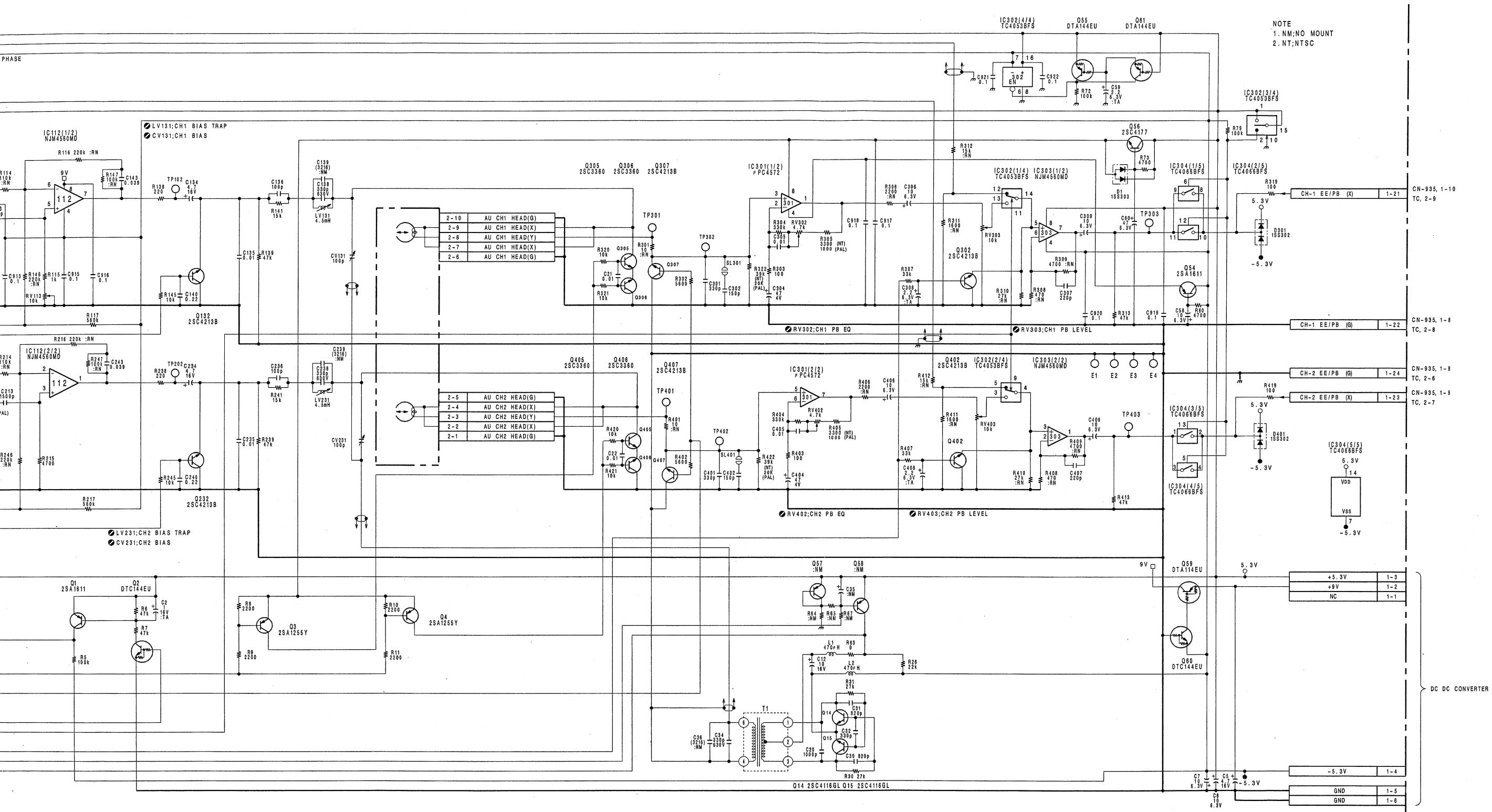
\* ; B SIDE



AUDIO REC/PB, BIAS OSC

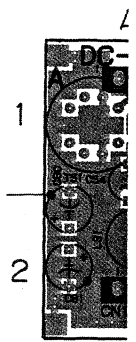


PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)



AU-185/185P BOARD  
PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

DC-67/68

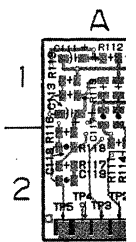


DC-67(1-6)

\* ; B SIDE

\*CN1 A-  
\*CN2 A-

D11 C-  
D12 C-  
D31 A-  
D32 B-



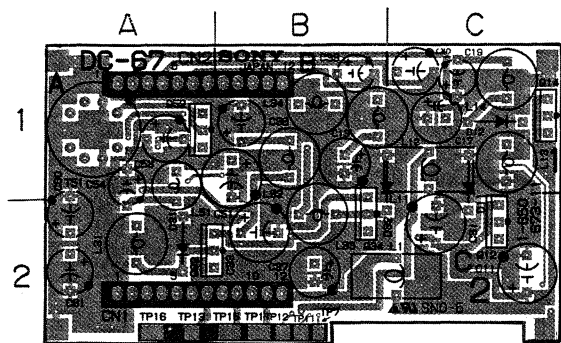
DC-68(1-6)

\* ; B SIDE

D101 C  
D102 D

\*IC101 C  
\*IC102 A  
\*IC103 B

DC-67/68 BOARD



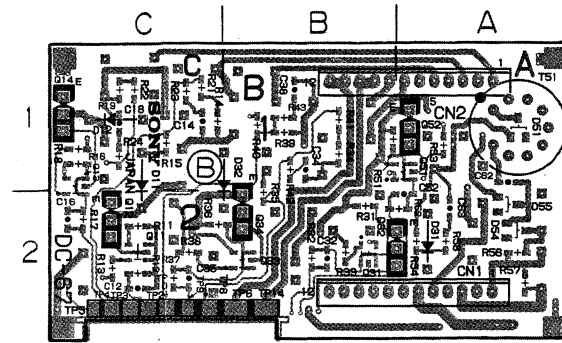
DC-67 -A SIDE-

1-650-673-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

DC-67(1-650-673-11)

\*; B SIDE

*CN1	A-2	*D51	A-1	Q12	C-2
*CN2	A-1	*D54	A-2	*Q13	C-1
		*D55	A-2	Q14	C-1
D11	C-1			*Q31	B-2
D12	C-1			Q32	A-2
D31	A-2			*Q33	B-2
D32	B-1	*Q11	C-2	Q34	B-2

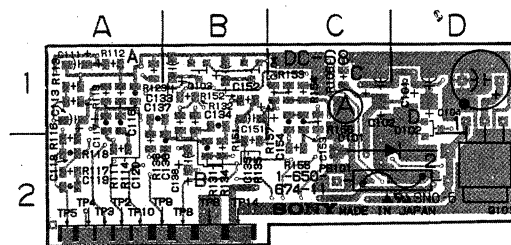


DC-67 -B SIDE-

1-650-673-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

*Q51	A-1
Q52	A-1
T51	A-1

\*; B SIDE



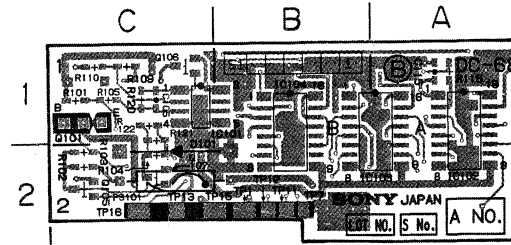
DC-68 -A SIDE-

1-650-674-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

DC-68(1-650-674-11)

\*; B SIDE

D101	C-2	*IC104	C-1	Q104	B-1
D102	D-1			*Q105	D-2
		*PS101	D-2	*Q106	C-1
*IC101	C-1				
*IC102	A-1	Q101	D-2	*; B SIDE	
*IC103	B-1	Q103	B-1		



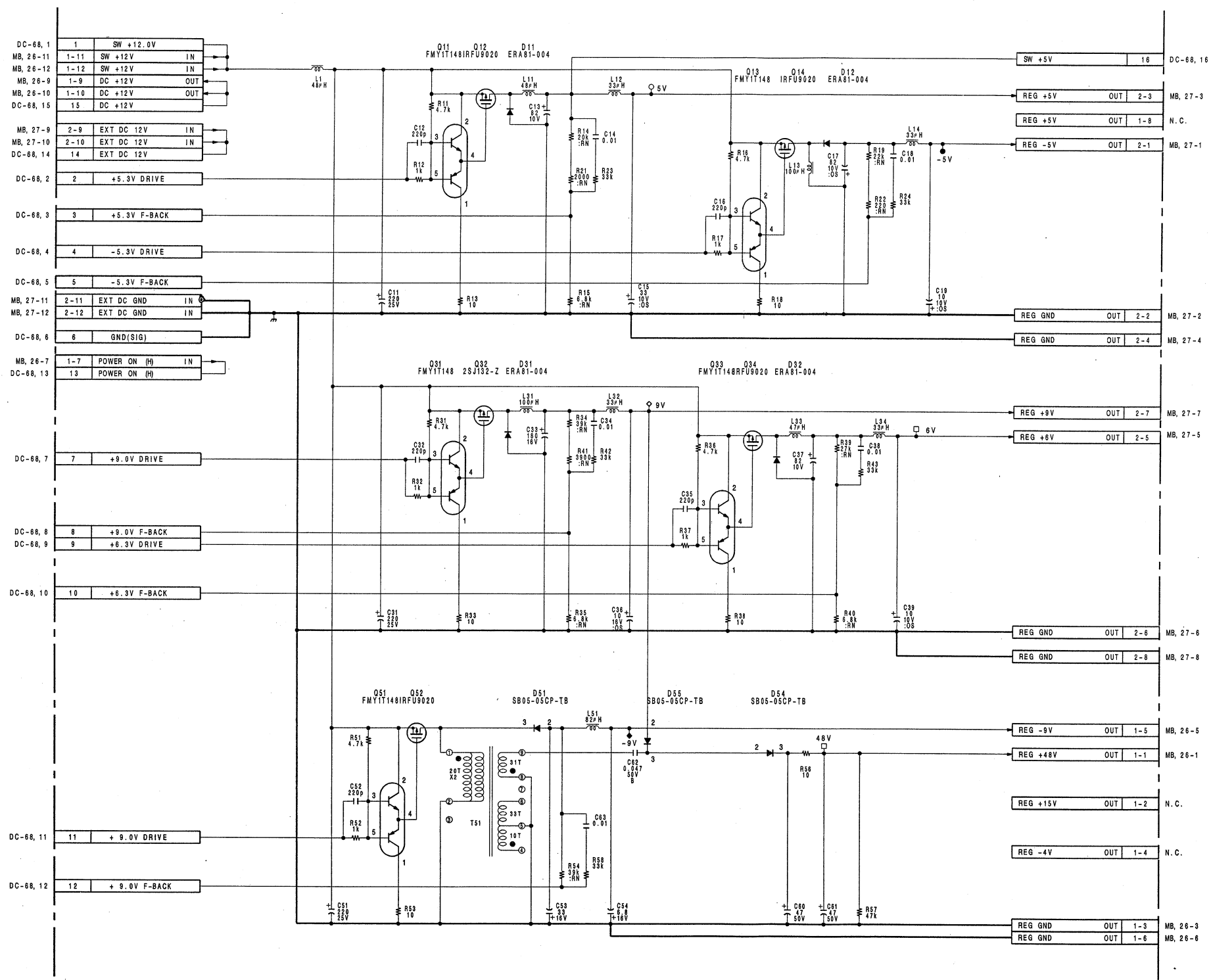
DC-68 -B SIDE-

1-650-674-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



DC-DC CONVERTER

D



DC-67 BOARD  
PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

A

B

C

D

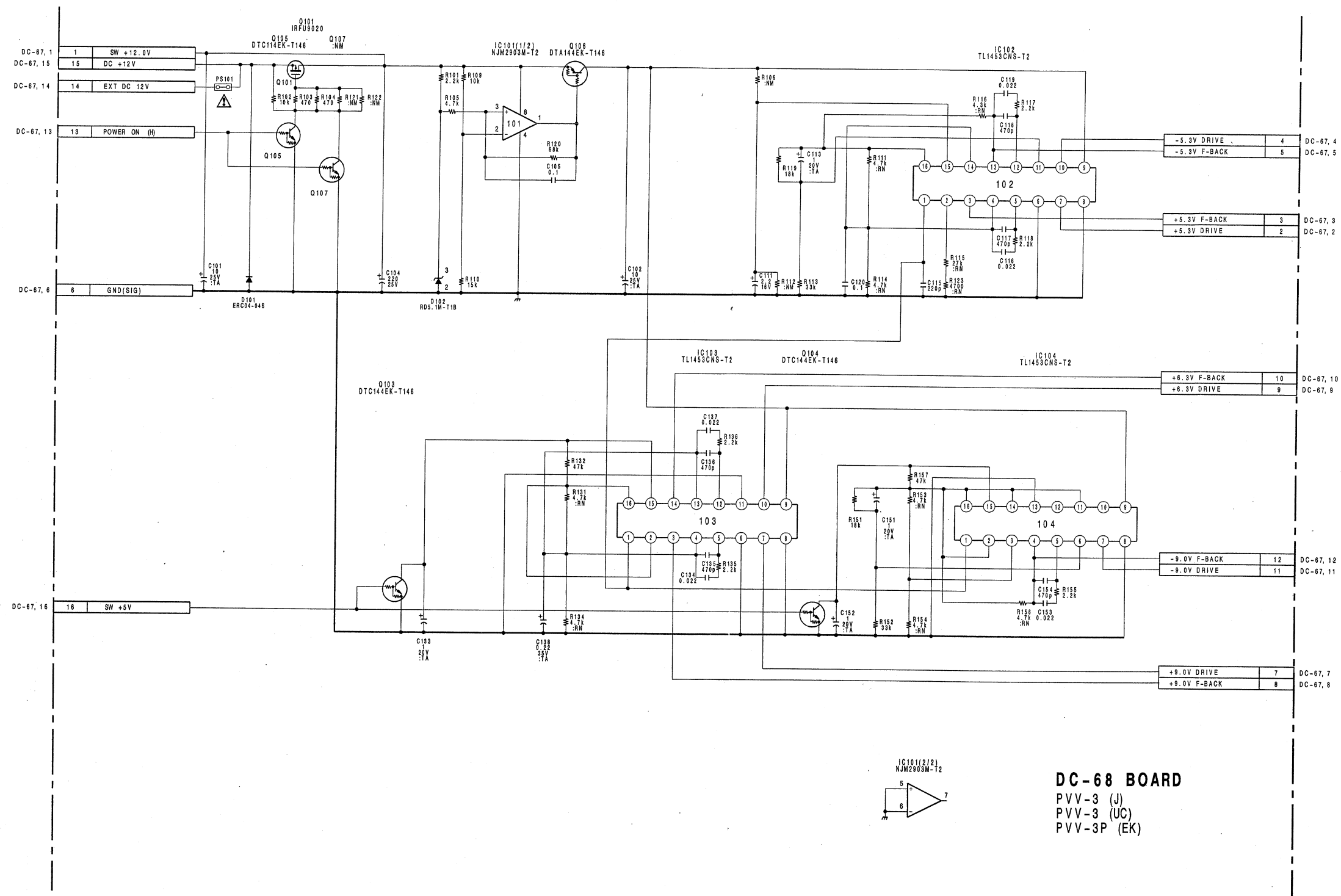
E

F

G

H

## DC-DC CONVERTER

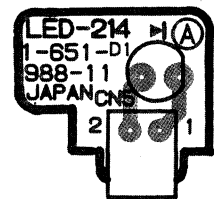


**DC-68 BOARD**  
 P V V - 3 (J)  
 P V V - 3 (UC)  
 P V V - 3 P (EK)

LED-214, CN-1123, CN-935, CN-983,  
KY-285, FE-18, DR-254, SR-55, MB-552

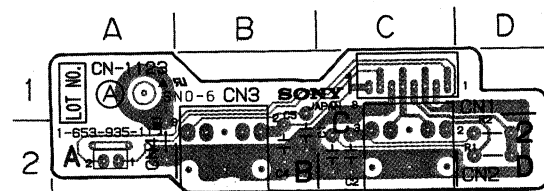
LED-214, CN-1123, CN-935, CN-983,  
KY-285, FE-18, DR-254, SR-55, MB-552

LED-214 BOARD  
CN-1123 BOARD  
CN-935 BOARD  
CN-983 BOARD  
KY-285 BOARD  
FE-18 BOARD  
DR-254 BOARD  
SR-55 BOARD  
MB-552 BOARD



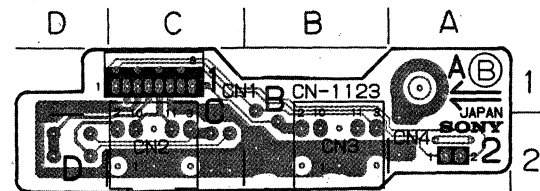
LED-214 -A SIDE-

1-651-988-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



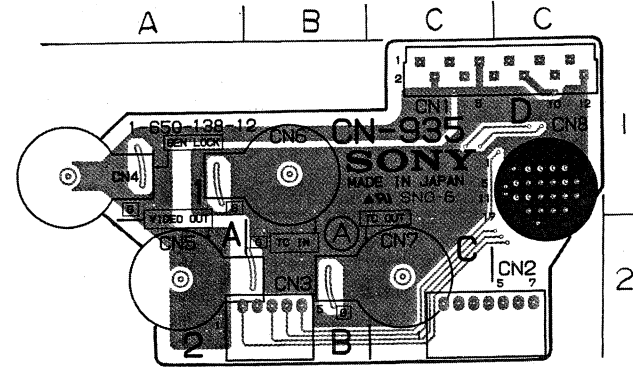
CN-1123-A SIDE-

1-653-935-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



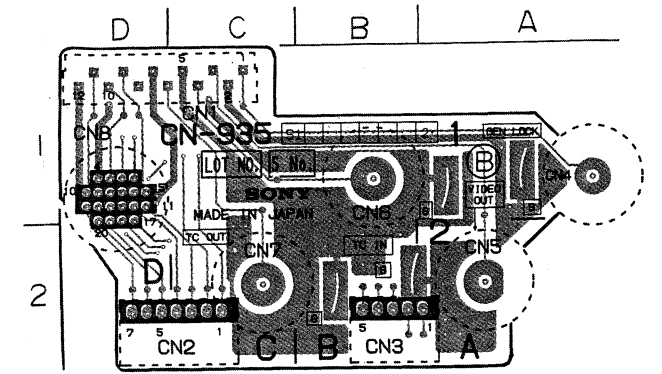
CN-1123-B SIDE-

1-653-935-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



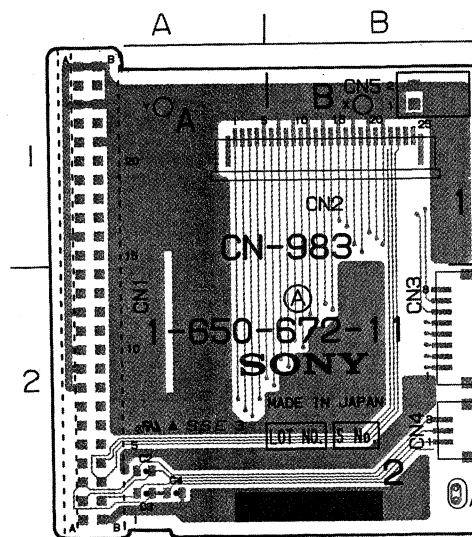
CN-935 -A SIDE-

1-650-138-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



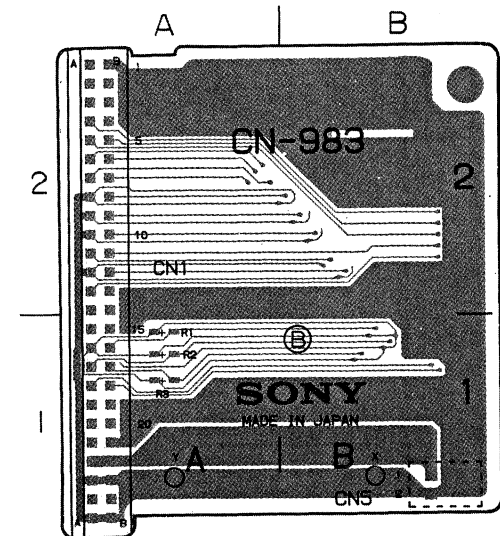
CN-935 -B SIDE-

1-650-138-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



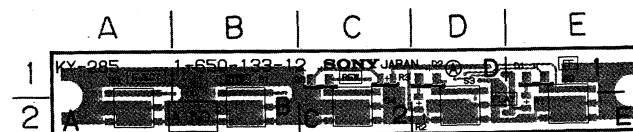
CN-983 -A SIDE-

1-650-672-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



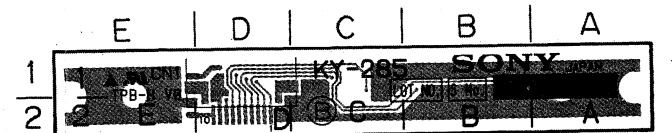
CN-983 -B SIDE-

1-650-672-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



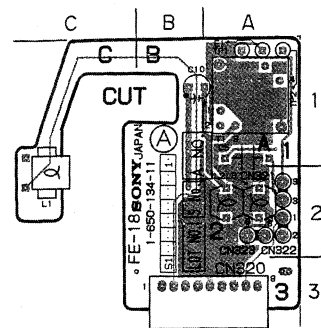
KY-285 -A SIDE-

1-650-133-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

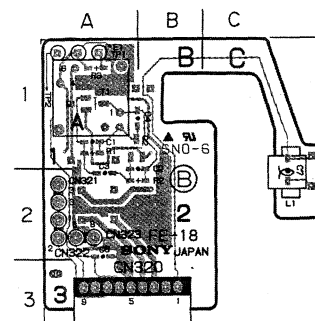


KY-285 -B SIDE-

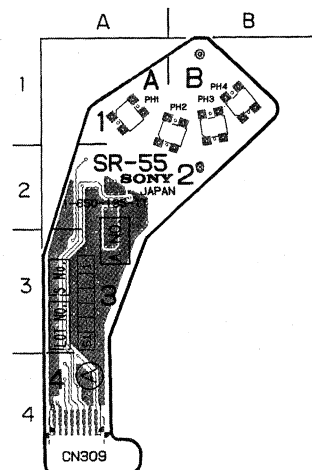
1-650-133-12  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



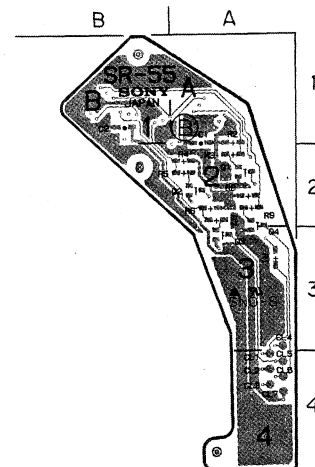
**FE-18 -A SIDE-**  
1-650-134-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



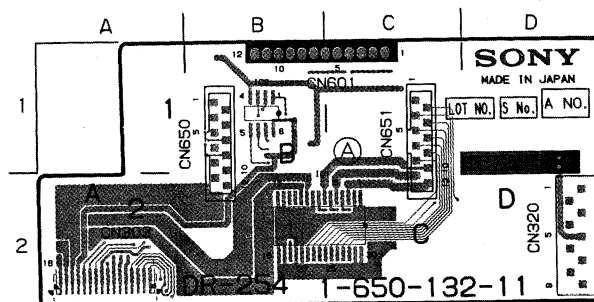
**FE-18 -B SIDE-**  
1-650-134-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



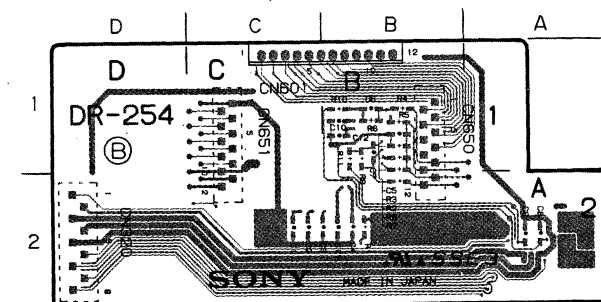
**SR-55 -A SIDE-**  
1-650-135-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



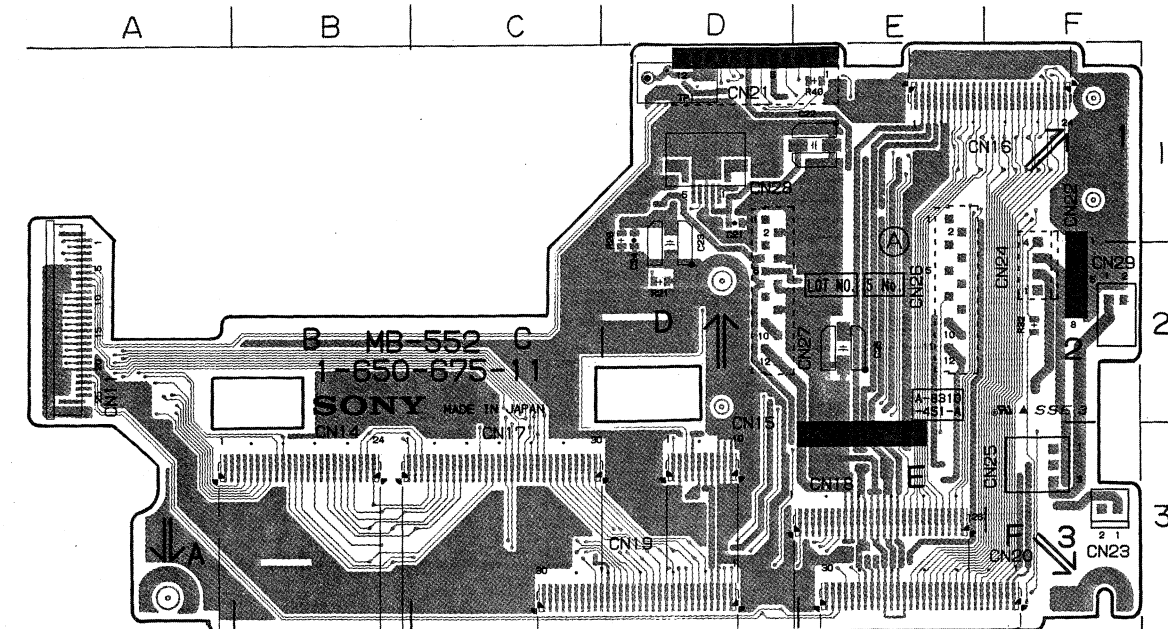
**SR-55 -B SIDE-**  
1-650-135-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



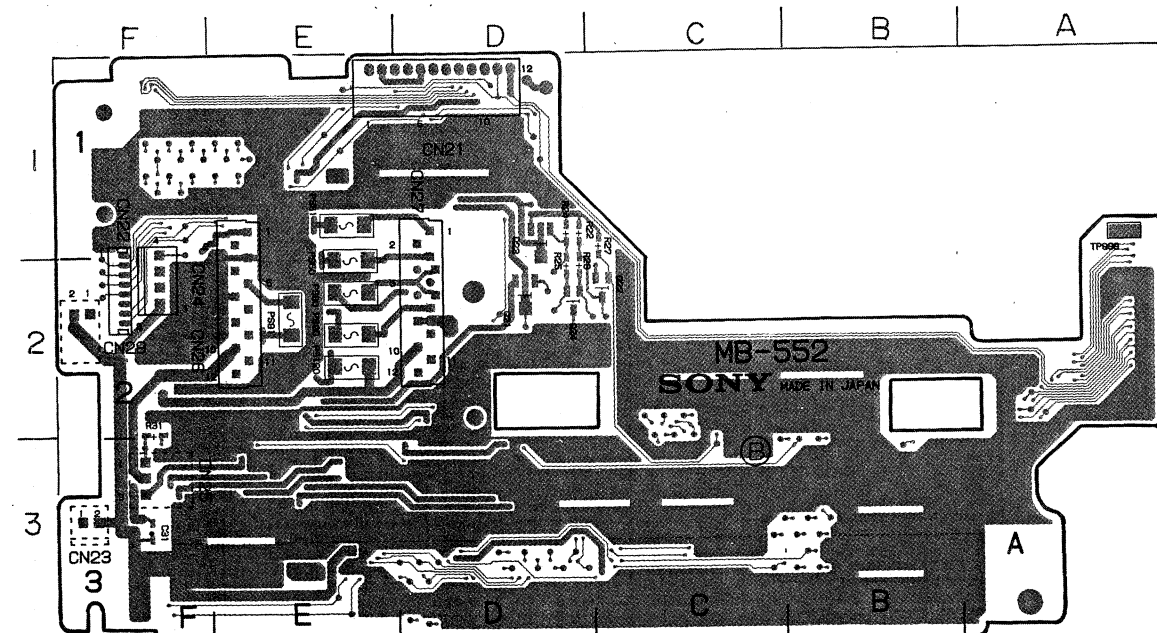
**DR-254 -A SIDE-**  
1-650-132-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



**DR-254 -A SIDE-**  
1-650-132-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



**MB-552 -A SIDE-**  
1-650-675-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)



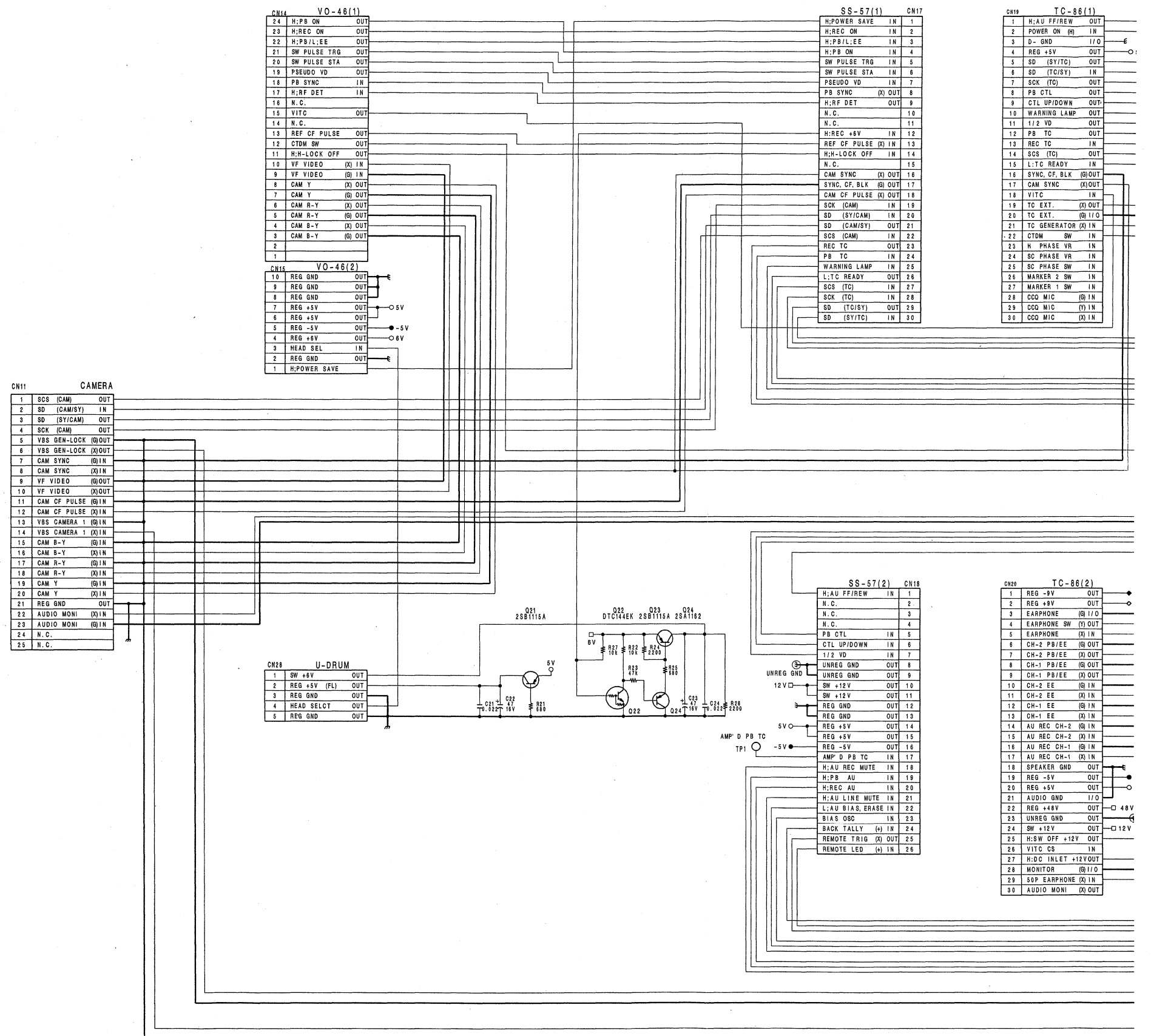
**MB-552 -B SIDE-**  
1-650-675-11  
PVV-3(J)  
PVV-3(UC)  
PVV-3P(EK)

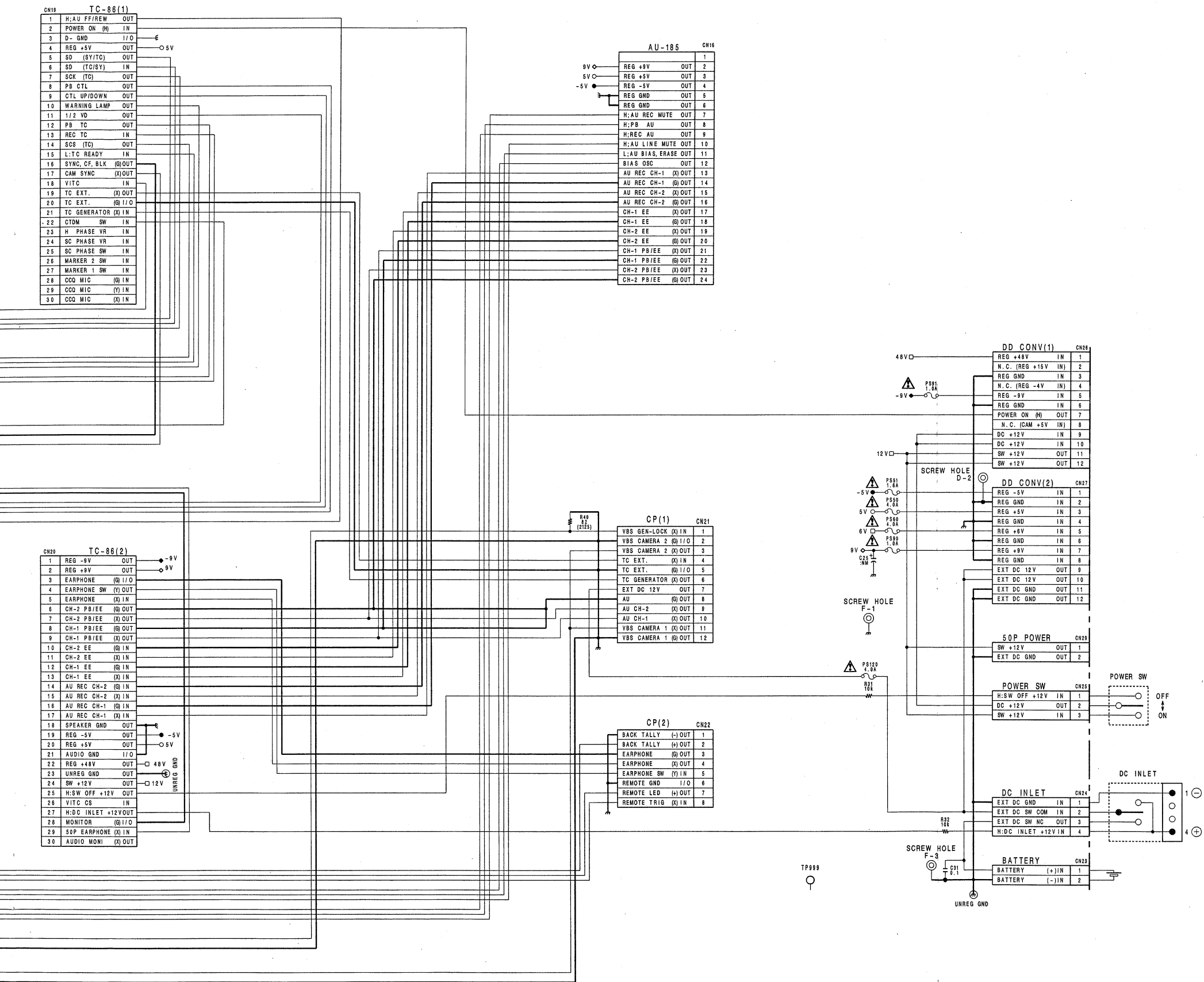
MB-552(1-650-675-11)

\*; B SIDE

CN11	A-1	CN19	D-3	CN25	F-3	*PS50	E-2	*Q21	D-2	*TP999	A-1
CN14	B-3	CN20	E-3	*CN26	E-1	*PS51	E-1	*Q22	C-2		
CN15	D-3	*CN21	E-1	*CN27	D-1	*PS60	E-2	*Q23	D-1	*; B SIDE	
CN16	F-1	*CN22	F-1	CN28	D-1	*PS90	E-2	*Q24	D-2		
CN17	C-3	CN23	F-3	CN29	F-2	*PS91	E-2	TP1	D-1		
CN18	E-3	*CN24	F-2			*PS120	E-2				

MOTHER BOARD





MB-552 BOARD  
PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)



FRAME

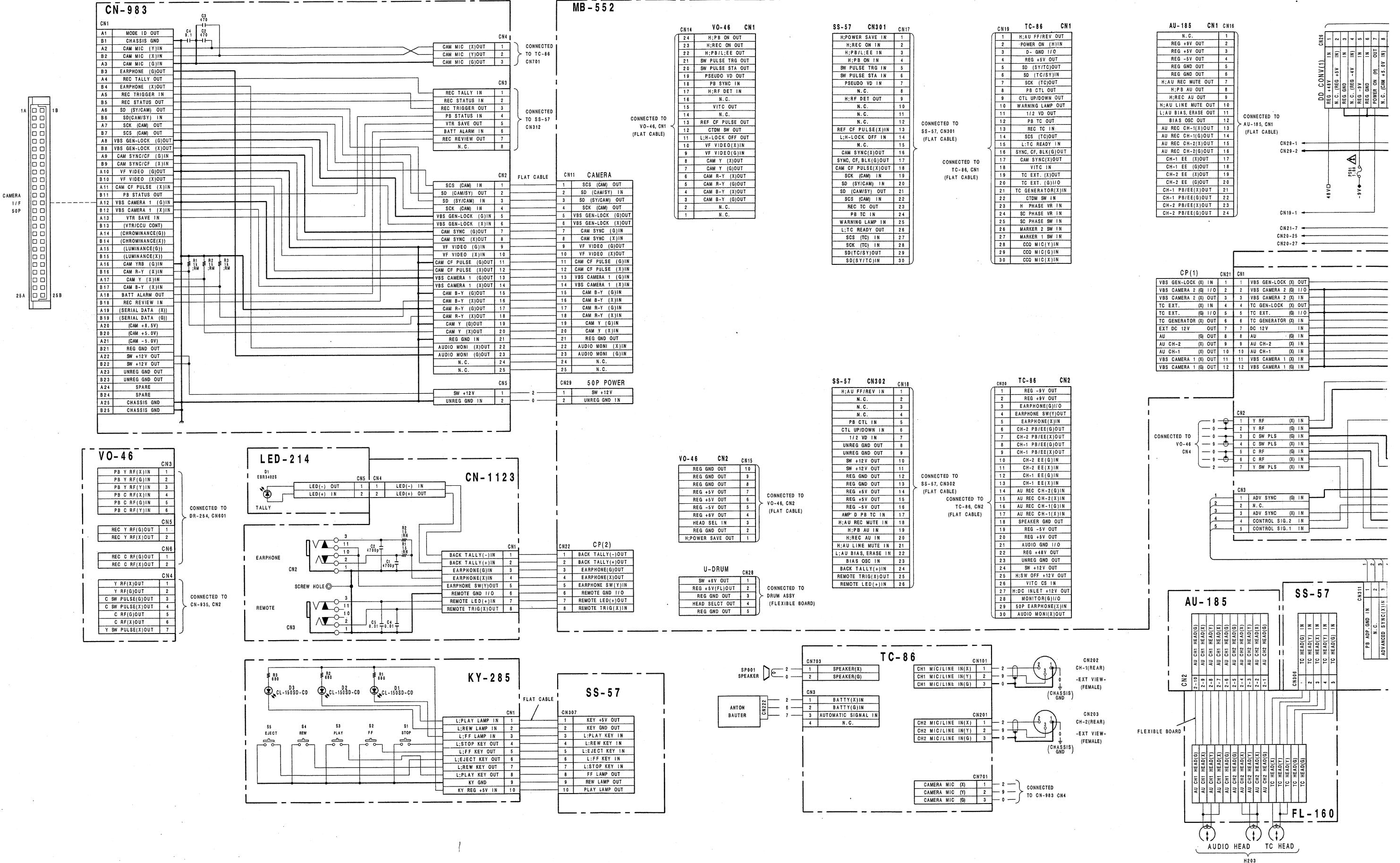
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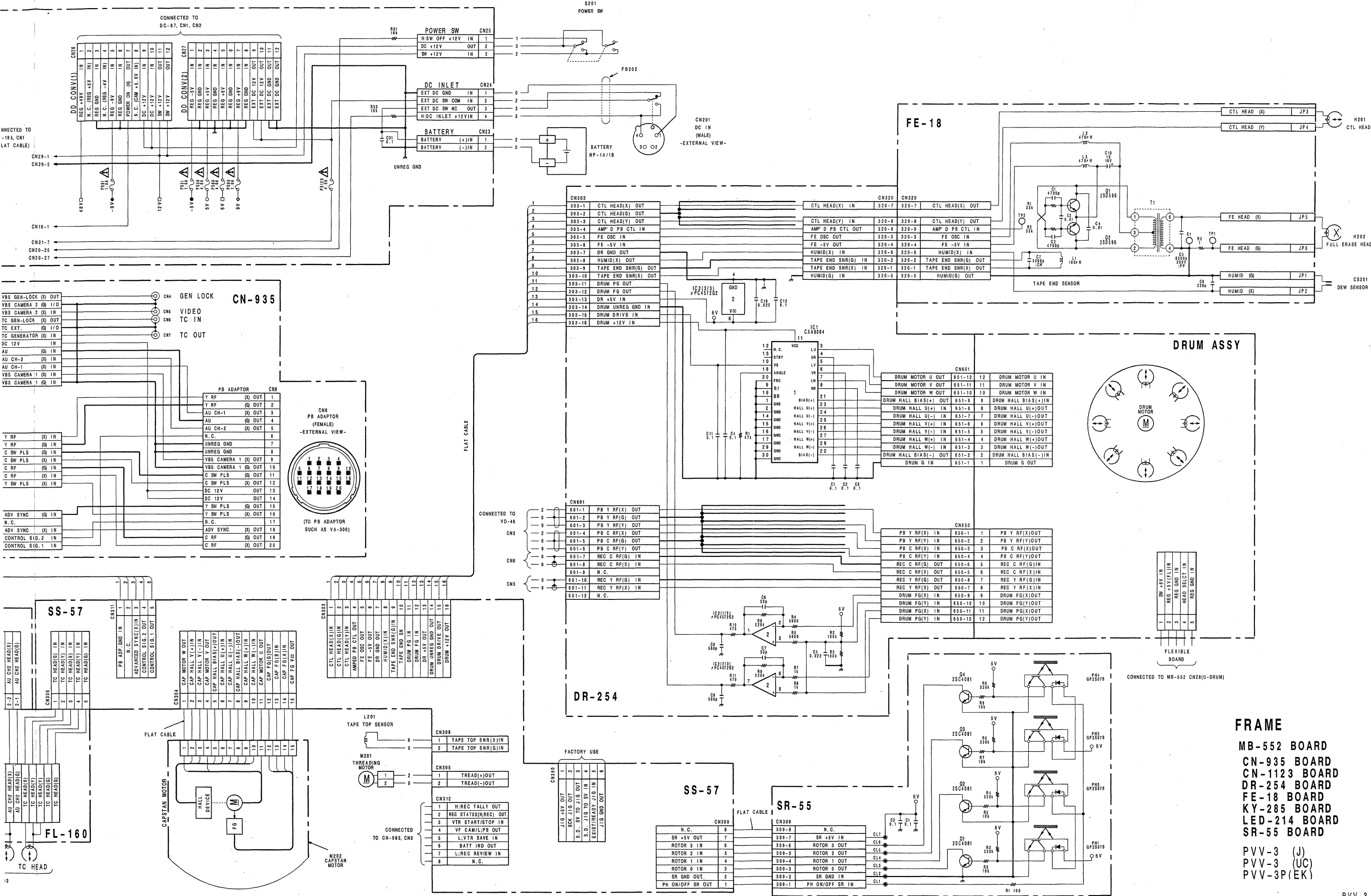
2

3

4

5





FRAME

- MB-552 BOARD
- CN-935 BOARD
- CN-1123 BOARD
- DR-254 BOARD
- FE-18 BOARD
- KY-285 BOARD
- LED-214 BOARD
- SR-55 BOARD

- PVV-3 (J)
- PVV-3 (UC)
- PVV-3P (EK)

- PVV-3 (J)
- PVV-3 (UC)
- PVV-3P (EK)



## SECTION 15

### SEMICONDUCTOR PIN ASSIGNMENTS

この章の図の中には互換性のないダイオード、トランジスタ、ICが併記されていることがあります。部品を交換するときには必ず部品表を参照してください。  
等価回路はICメーカーのData Bookに従いました。

The chart in this section may sometimes show diodes, transistors, and ICs that are not interchangeable. When replacing a component, be sure to refer to the parts list. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

DIODE	PAGE
1SS300 .....	15-2
1SS302 .....	15-2
1SS303 .....	15-2
1SS304 .....	15-2
1SV160 .....	15-2
CL-150SD-CD .....	15-2
CL-150Y-CD .....	15-2
DA-204U .....	15-2
EBR3402S .....	15-2
EC10QS-10 .....	15-2
ERA83 .....	15-2
MA141A .....	15-2
MA141WA .....	15-2
MA141WK .....	15-2
MA143 .....	15-2
NSQ03A04 .....	15-2
RD??M-B? .....	15-2
SB01-05CP .....	15-2
SB05-05CP .....	15-2
U05G .....	15-2
UZM??B .....	15-2

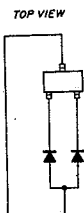
TRANSISTOR	PAGE
2SA1162 .....	15-3
2SA1330 .....	15-3
2SA1576 .....	15-3
2SA1611 .....	15-3
2SB1115A .....	15-3
2SB624 .....	15-3
2SC16233 .....	15-3
2SC2611 .....	15-3
2SC2712 .....	15-3
2SC3360 .....	15-3
2SC4116 .....	15-3
2SC4177-L6 .....	15-3
2SC4178 .....	15-3
2SC4213B .....	15-3
2SD1615A .....	15-3
2SD1623 .....	15-3
2SD596 .....	15-3
2SJ132 .....	15-3
2SK209G .....	15-3
2SK852 .....	15-3
2SK853 .....	15-3
DTA114EU .....	15-3
DTA114YU .....	15-3
DTA144EK .....	15-3

TRANSISTOR	PAGE
DTA144EU .....	15-3
DTC114EK .....	15-3
DTC114EU .....	15-3
DTC144EK .....	15-3
DTC144EU .....	15-3
FMY1 .....	15-3
FMY3 .....	15-3
IMB2 .....	15-3
IMH2 .....	15-3
IMT1US .....	15-3
IMX1 .....	15-3
IRFU9020 .....	15-3

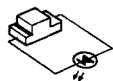
IC	PAGE
BR9021BF .....	15-4
BR93LC46F .....	15-4
CX20030 .....	15-4
CXA1098Q .....	15-5
CXA1179N .....	15-5
CXA1480Q .....	15-6
CXA8004M .....	15-6
CXD1132Q .....	15-7
CXD1151Q .....	15-8
CXD1171M .....	15-8
CXD1175AM .....	15-6
CXD1357Q .....	15-9
HD14053BFP .....	15-10
LA7205M .....	15-9
LM1881M .....	15-9
LM2901M .....	15-11
LM2903M .....	15-11
MB88347PFV-G-BND .....	15-9
MC14013BF .....	15-10
MC14046BF .....	15-10
MC14066BF .....	15-10
MC14070BF .....	15-10
MC14071BF .....	15-10
MC14538BF .....	15-11
MC34182M .....	15-11
NJM2903M .....	15-11
NJM386M .....	15-11
NJM4556M .....	15-11
NJM4558M .....	15-11
NJM4560MD .....	15-11
NJM78L05UA .....	15-11
RH5RE50AA .....	15-11
S-8054ALR .....	15-12

IC	PAGE
S-8054HN .....	15-12
SN74HC04ANS .....	15-12
TA7291F .....	15-12
TC4052BFHB .....	15-12
TC4053BFS .....	15-10
TC4066BFS .....	15-10
TC4S71F .....	15-12
TC4S81F .....	15-13
TC4SU69F .....	15-12
TC4W53F .....	15-13
TC74HC221AF .....	15-13
TC74HC4053AF .....	15-13
TC74HC4066AFS .....	15-13
TC7S04F .....	15-12
TL1453CNS .....	15-13
UPC1663G .....	15-16
UPC324G2 .....	15-16
UPC358G2 .....	15-16
UPC4572G2 .....	15-16
UPD75P516GF .....	15-16
UPD78064GF-3BA .....	15-14
UPD78P064GF-3BA .....	15-14

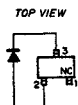
# DIODE



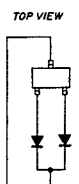
1SS300  
1SS303  
MA141WA



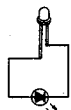
CL-150Y-CD ; AMBER



RD ? ?M-B ?  
UZM ? ?B



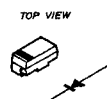
1SS304  
MA141WK



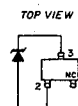
EBR3402S ; RED



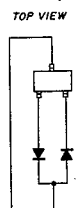
SB01-05CP



EC10QS-10  
NSQ03A04



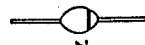
SB05-05CP



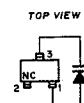
1SS302  
DA204U  
MA143



ERA83



U05G



1SV160



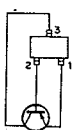
MA141A



CL-150SD-CD ; ORANGE

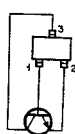
# TRANSISTOR

TOP VIEW



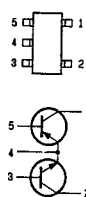
2SA1162  
2SA1330  
2SA1576  
2SA1611  
2SB624

TOP VIEW

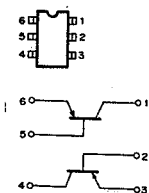


2SC4116

TOP VIEW

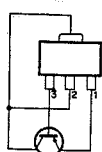


FMY1

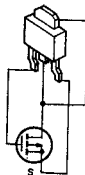


IMT1US

TOP VIEW

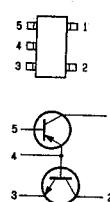


2SB1115A



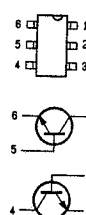
2SJ132

TOP VIEW



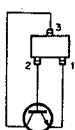
FMY3

TOP VIEW



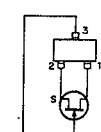
IMX1

TOP VIEW



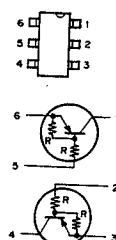
2SC1623  
2SC2712  
2SC3360  
2SC4177-L6  
2SC4178  
2SC4213B  
2SD596

TOP VIEW

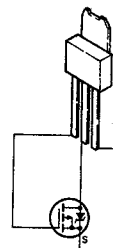


2SK209G  
2SK852  
2SK853

TOP VIEW



IMB2 (R = 47K)



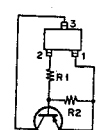
IRFU9020

TYPE NO.  
PRINTED



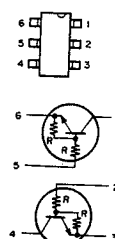
2SC2611

TOP VIEW



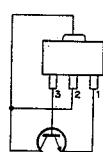
DTA114EU  
(R1 = 10K, R2 = 10K)  
DTA114YU  
(R1 = 10K, R2 = 47K)  
DTA144EK  
(R1 = 47K, R2 = 47K)  
DTA144EU  
(R1 = 47K, R2 = 47K)

TOP VIEW



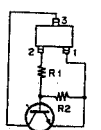
IMH2 (R = 47K)

TOP VIEW



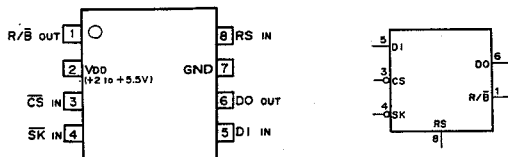
2SD1615A  
2SD1623

TOP VIEW



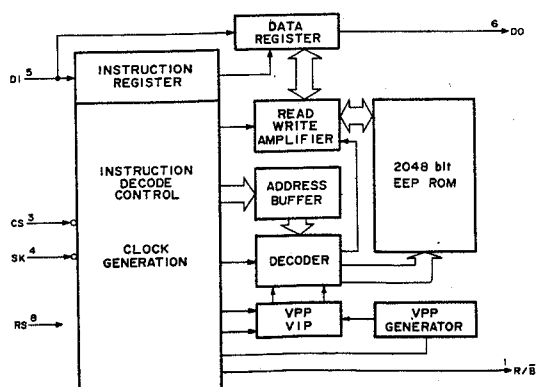
DTC114EK  
(R1 = 10K, R2 = 10K)  
DTC114EU  
(R1 = 10K, R2 = 10K)  
DTC144EK  
(R1 = 47K, R2 = 47K)  
DTC144EU  
(R1 = 47K, R2 = 47K)

BR9021BF (ROHM) FLAT PACKAGE  
C-MOS 2k (128x16) BITS SERIAL EEPROM  
- TOP VIEW -

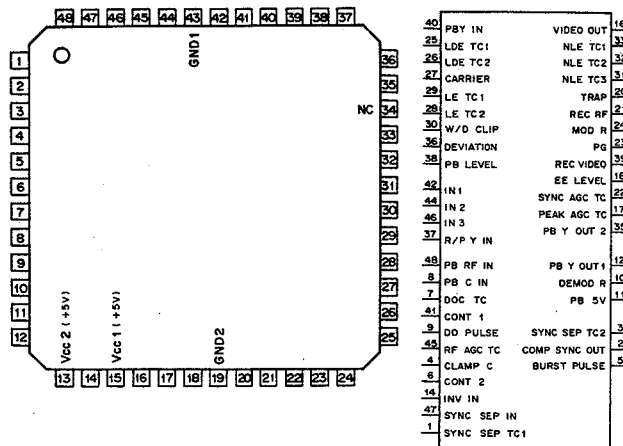


INPUT  
CS : CHIP SELECT  
DI : OP CODE, ADDRESS, AND SERIAL DATA  
RS : RESET  
SK : SERIAL DATA CLOCK

OUTPUT  
DO : SERIAL DATA OUTPUT  
R/B : READY/BUSY SIGNAL



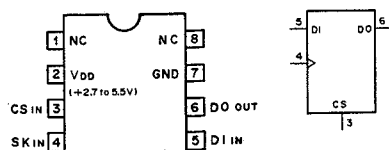
CX20030 (SONY) FLAT PACKAGE  
VIDEO Y SIGNAL PROCESSOR  
- TOP VIEW -



(V<sub>DD</sub> = +5V)

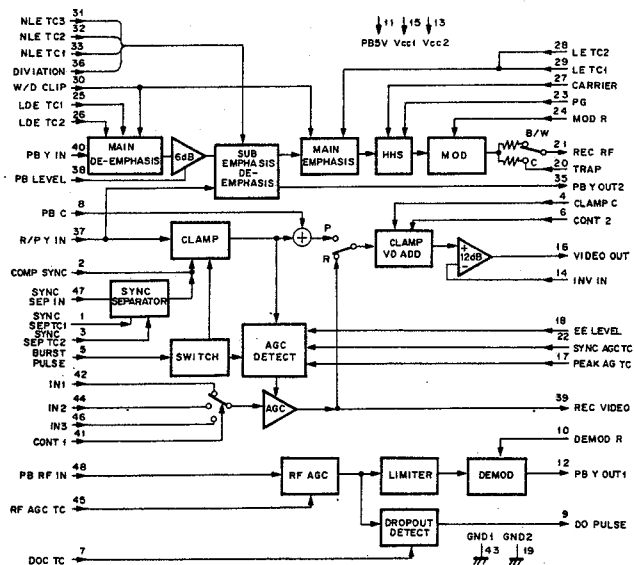
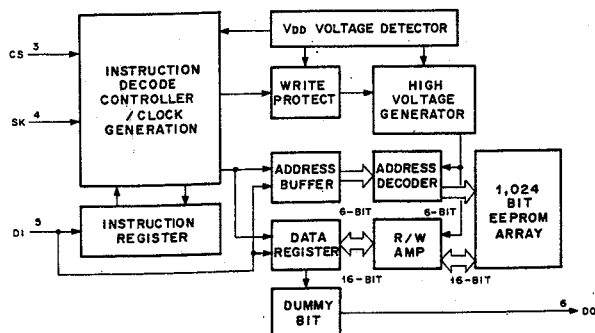
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	SYNC SEP TC1	17	I	PEAK AGC TC	33	I	NLE TC1
2	O	COMP SYNC	18	I	EE LEVEL	34	-	NC
3	I	SYNC SEP TC2	19	-	GND2	35	O	PB Y OUT2
4	I	CLAMP C	20	I	TRAP	36	I	DEVIATION
5	I	BURST PULSE	21	O	REC RF	37	I	R/P Y IN
6	I	CONT2	22	I	SYNC AGC TC	38	I	PB LEVEL
7	I	DOC TC	23	I	PG	39	O	REC VIDEO
8	I	PB C	24	I	MOD R	40	I	PB Y IN
9	O	DO PULSE	25	I	LDE TC1	41	I	CONT1
10	I	DEMOM R	26	I	LDE TC2	42	I	IN1
11	I	PB 5V	27	I	CARRIER	43	-	GND1
12	O	PB Y OUT1	28	I	LE TC2	44	I	IN2
13	-	Vcc2	29	I	LE TC1	45	I	RF AGC TC
14	I	INV IN	30	I	W/D CLIP	46	I	IN3
15	-	Vcc1	31	I	NLE TC3	47	I	SYNC SEP IN
16	O	VIDEO OUT	32	I	NLE TC2	48	I	PB RF IN

BR93LC46F (ROHM) FLAT PACKAGE  
C-MOS 1024 (64x16) BIT ELECTRICALLY ERASABLE PROM  
- TOP VIEW -



INPUT  
CS : CHIP SELECT  
DI : SERIAL DATA  
SK : SERIAL CLOCK

OUTPUT  
DO : SERIAL DATA

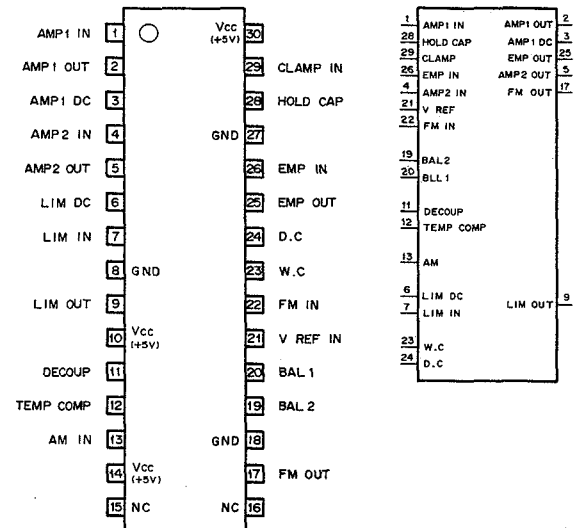


## CXA1179N (SONY)

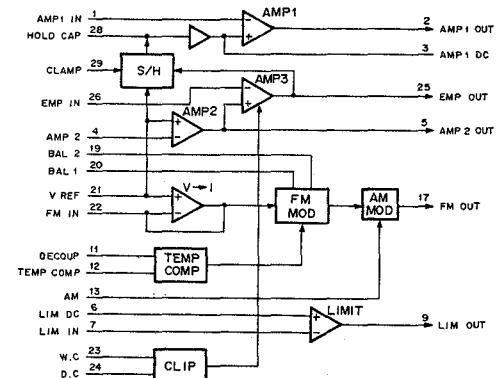
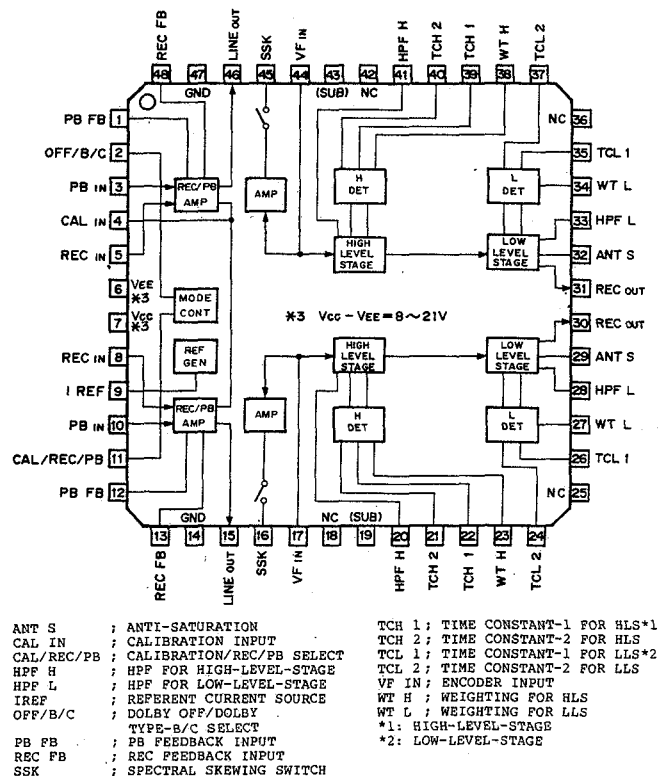
VIDEO Y/C REC FM MODULATOR FOR BETACAM  
- TOP VIEW -

**INPUT**  
BURST PULSE : BURST PULSE INPUT  
CARRIER : FM MODULATOR CARRIER CONTROL INPUT  
CLAMP C : EXTERNAL CAPACITOR FOR CLAMPING INPUT  
CONT 1 : INTERNAL SWITCH CONTROL INPUT  
CONT 2 : MUTE AND VD-ADD CONTROL INPUT  
DEMOD R : EXTERNAL RESISTOR FOR FM DEMODULATOR INPUT  
DEVIATION : DEVIATION CONTROL INPUT  
DOC TC : EXTERNAL CAPACITOR FOR DROPOUT DETECTION INPUT  
EE LEVEL : SYNC AGC CONTROL INPUT  
IN 1-IN 3 : RECORDING VIDEO SIGNAL INPUTS  
INV IN : INVERTING INPUT FOR VIDEO CIRCUIT  
LDE TC1,TC2 : EXTERNAL RESISTOR FOR LINEAR DE-EMPHASIS INPUTS  
LE TC1,TC2 : EXTERNAL CR FOR LINEAR EMPHASIS INPUTS  
MOD R : EXTERNAL RESISTOR FOR FM MODULATOR INPUT  
NLE TC1-NLE TC3 : EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS  
PB 5V : POWER FOR PLAYBACK SYSTEM INPUT  
PB C : PB CHROMA INPUT AND M/C CONTROL INPUT  
PB LEVEL : PB Y OUT2 SIGNAL CONTROL INPUT  
PB RF IN : PB RF (FM) INPUT  
PB Y IN : PB Y SIGNAL FOR DE-EMPHASIS INPUT  
PEAK AGC TC : EXTERNAL CR INPUT FOR PEAK AGC  
PG : PG (30Hz) SIGNAL INPUT  
RF AGC TC : EXTERNAL CR FOR RF AGC INPUT  
R/P Y IN : Y SIGNAL FOR CLAMPING INPUT  
SYNC AGC TC : EXTERNAL CR INPUT FOR SYNC AGC  
SYNC SEP IN : SYNC SEPARATION SIGNAL INPUT  
SYNC SEP TC1,TC2 : EXTERNAL CR INPUT FOR SYNC SEPARATION  
TRAP : TRAP INPUT  
W/D CLIP : LINEAR EMPHASIS AND W/D CLIP CONTROL INPUT

**OUTPUT**  
COMP SYNC : COMPOSITE SYNC OUTPUT  
DO PULSE : DROPOUT PULSE OUTPUT  
PB Y OUT1 : FREQUENCY DEMODULATOR OUTPUT  
PB Y OUT2 : PB Y OUTPUT  
REC RF : Y-FM SIGNAL OUTPUT  
REC VIDEO : AMPLIFIED Y SIGNAL OUTPUT  
VIDEO OUT : VIDEO OUTPUT



## CXA1098Q (SONY) FLAT PACKAGE

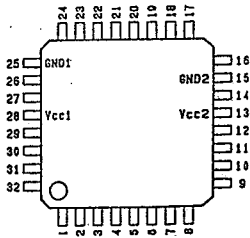
2 CHANNELS DOLBY TYPE-B/C NOISE REDUCTION  
- TOP VIEW -

**INPUT**  
AM : AM SIGNAL IN  
AMP1 IN : VIDEO SIGNAL AMP1 IN  
AMP2 IN : VIDEO SIGNAL AMP2 IN  
CLAMP : CLAMP PULSE IN  
EMP IN : EMPHASIS AMP IN  
FM IN : FM MODULATOR IN  
LIM IN : LIMITER IN  
V REF : VOLTAGE REFERENCE IN

**OUTPUT**  
AMP1 OUT : VIDEO SIGNAL AMP1 OUT  
AMP2 OUT : VIDEO SIGNAL AMP2 OUT  
EMP OUT : EMPHASIS AMP OUT  
FM OUT : FM MODULATOR OUT  
LIM OUT : LIMITER OUT

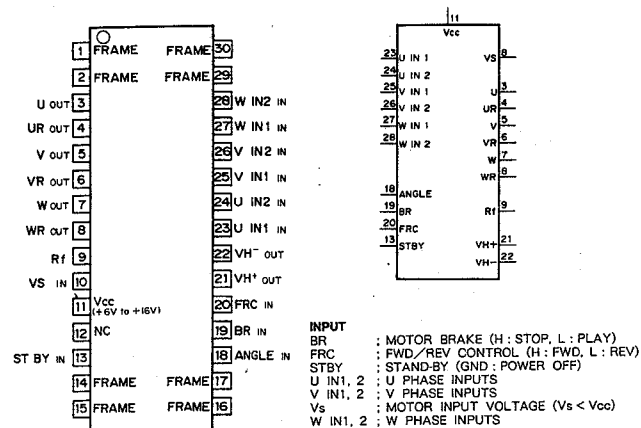
**OTHER**  
BAL1, BAL2 : MODULATOR BALANCE ADJUSTMENT  
D.C : DARK CLIP ADJUSTMENT  
DECOUP : DECOUPLING CAPACITOR  
HOLD CAP : HOLD CAPACITOR  
LIM DE : LIMITER DECOUPLING CAPACITOR  
TEMP COMP : TEMPERATURE COMPENSATION  
W.C : WHITE CLIP ADJUSTMENT  
AMP1 DC : AMP1 CLAMP DC

**CXA1480Q (SONY)**  
THROUGH RATE LIMITER  
— TOP VIEW —



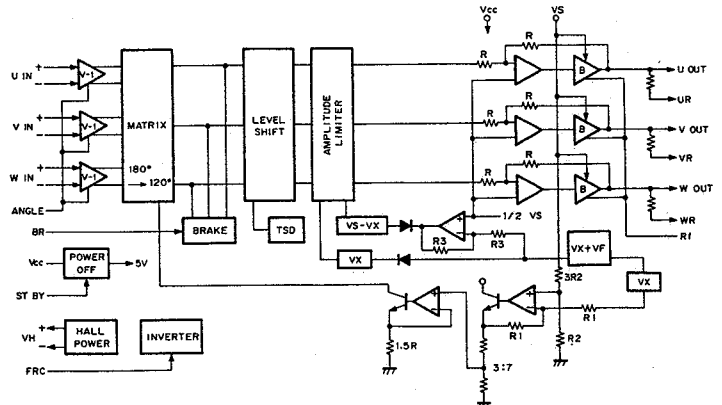
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	TH IN	17	O	SRL OUT
2	I	SRL CONT	18	I	SRL IN
3	I	SRL C	19	I	SR R IN
4	I	SRL RFF	20	O	SR R OUT
5	I	LIM H	21	O	VCA OUT
6	I	LIM L	22	I	RG1 IN
7	I	SW IN2	23	O	RG1 OUT
8	I	SH IN	24	O	AMP OUT
9	O	SH C	25	—	GND1
10	O	SH OUT	26	I	AMP IN
11	I	SH PLS	27	I	AMP REF
12	I	SW PLS	28	—	Vcc1
13	—	Vcc2	29	I	RG2 IN
14	—	GND2	30	I	VCA CONT
15	—	GND2	31	O	COMP OUT
16	I	SW IN1	32	O	COMP SIG

**CXA8004M (SONY) FLAT PACKAGE**  
3DD MOTOR DRIVER  
— TOP VIEW —

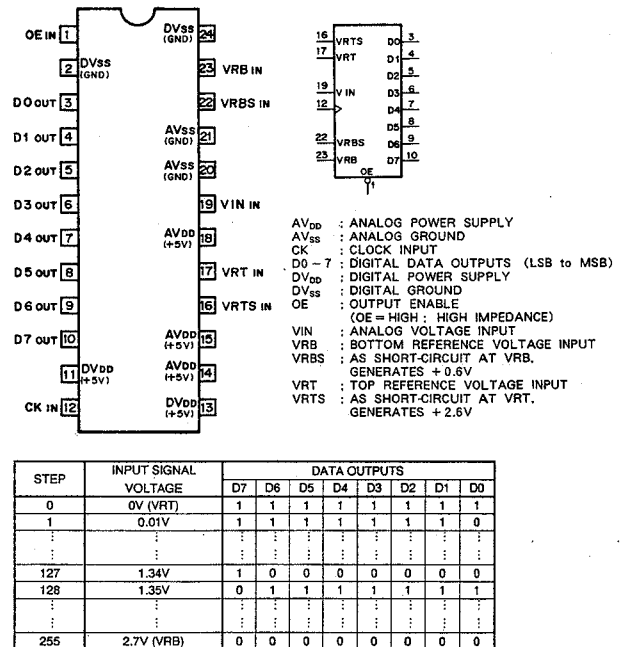


INPUT	FRC	FUNCTION
U V W	0	W → V PHASE
H H L	1	V → W PHASE
H L L	0	W → U PHASE
L L H	1	V → U PHASE
L H L	0	U → W PHASE
H L H	1	V → V PHASE
L H H	0	U → V PHASE
H H H	1	U → W PHASE
L H H	1	W → U PHASE

H: HIGH LEVEL  
L: LOW LEVEL

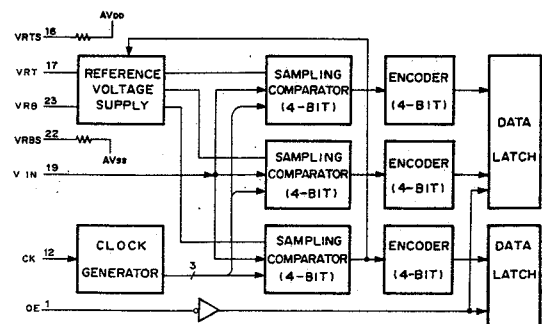


**CXD1175AM (SONY) FLAT PACKAGE**  
C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER  
— TOP VIEW —

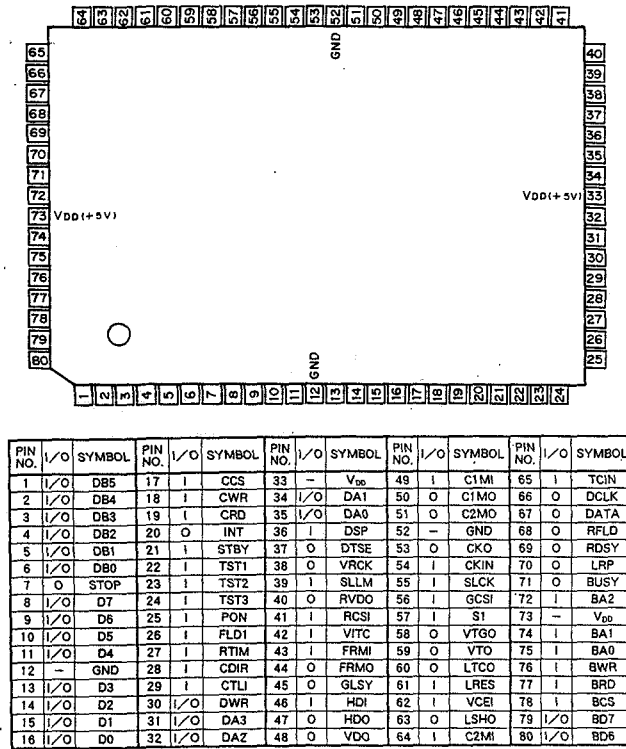


STEP	INPUT SIGNAL VOLTAGE	D7	D6	D5	D4	D3	D2	D1	D0
0	0V (VRT)	1	1	1	1	1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
...	...	...	...	...	...	...	...	...	...
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
...	...	...	...	...	...	...	...	...	...
255	2.7V (VRB)	0	0	0	0	0	0	0	0

0: LOW LEVEL  
1: HIGH LEVEL



CXD1132Q (SONY) FLAT PACKAGE  
C-MOS TIME CODE GENERATOR/READER  
- TOP VIEW -



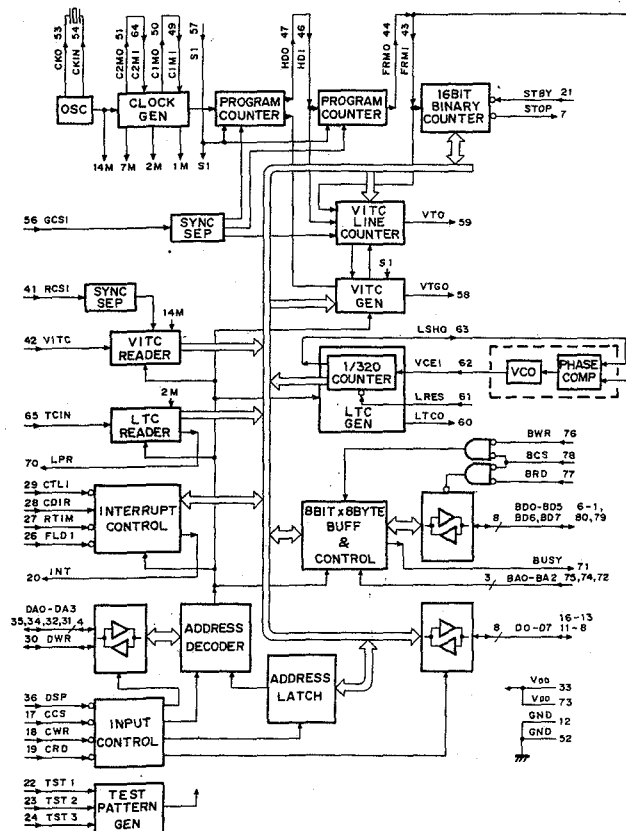
SIGNAL DESCRIPTION

BA0-BA2 B ADDRESS INPUTS  
BCS B CHIP ENABLE INPUT ("L":ENABLE)  
BD0-BD7 B DATA I/O  
BRD B READ INPUT ("L":READ)BDSY B BUSY OUTPUT  
BWR B WRITE INPUT ("L":WRITE)  
C1MI SYSTEM CLOCK INPUT  
C1MO CLOCK 1 OUTPUT (CKIN X 1/16)  
C2MI LTC READ CLOCK INPUT  
C2MO CLOCK 2 OUTPUT (CKIN X 1/8)  
CCS C CHIP ENABLE INPUT ("L":ENABLE) (when DSP is low)  
CDIR ADDRESS LATCH ENABLE INPUT ("L":ENABLE) (when DSP is high)  
CDIR CTL DIRECTION INPUT  
CKIN SYSTEM CLOCK INPUT

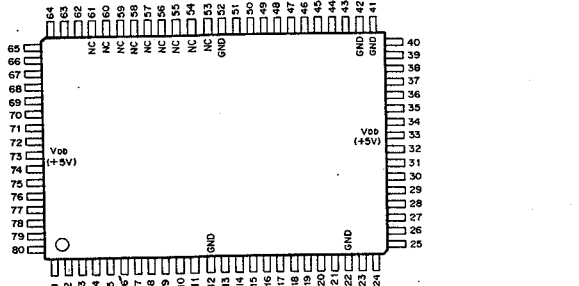
VIDEO SIGNAL FORMAT	CKIN
SMPT 29.97HZ 525LINE	14.318MHZ
EBU 25HZ 625LINE	14.500MHZ

CKO CLOCK OUTPUT  
CRD C READ INPUT ("L":READ)  
CTLI CTL SIGNAL INPUT  
CWR C WRITE INPUT ("L":WRITE)  
D0-D7 DATA I/O (when DSP is low)/  
ADDRESS INPUTS  
DA0-DA3 E ADDRESS INPUTS (when DSP is high)  
D ADDRESS OUTPUT (when DSP is low)  
DATA DEMODULATED SERIAL DATA OUTPUT  
DCLK DEMODULATED CLOCK OUTPUT  
DSP DISPLAY BUS SELECT INPUT  
DSP controls CCS, DA0-DA3 and DVR.  
DTSE VITC DATA SEARCH FLAG OUTPUT  
DWR WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)  
E ADDRESS 4 INPUT (when DSP is high)  
E ADDRESS BUS INPUT  
FLDI FIELD REFERENCE INPUT ("L":PILD 1)  
FRMI FRAME SIGNAL INPUT  
FRMO FRAME SIGNAL OUTPUT  
GCSI COMPOSITE SYNC INPUT  
GLSY LOST SYNC FLAG OUTPUT  
HDI HORIZONTAL SYNC INPUT  
HDO HORIZONTAL SYNC OUTPUT  
INT INTERRUPT REQUEST OUTPUT  
LPR LTC READ REQUEST OUTPUT  
LRES LTC COUNTER RESET INPUT ("L":RESET)  
LSHO SYNCHRONOUS SIGNAL OUTPUT  
LTGO LTC SIGNAL OUTPUT  
PON SYSTEM RESET INPUT ("L":PON)  
RCSI COMPOSITE SYNC INPUT  
RDSY READ SYNC WORD DATA OUTPUT  
RESS RESET INPUT ("L":RTIM)  
RFLD FIELD DATA OUTPUT  
RTIM TIME ADDRESS RESET INPUT ("L":RESET)  
RVDO VITC READ DATA OUTPUT

S1 SIGNAL FORMAT SELECT INPUT  
"H":NTSC/PAL-M 29.94HZ 525LINE  
"L":PAL/SECAM 25HZ 625LINE  
SLCK SELECT CLOCK INPUT  
SLCK "L" "H"  
CKIN 14.318MHZ 14.5MHZ 7.159MHZ 7.25MHZ  
SPCK SMPT EBU SMPT EBU  
SLLM READ SIZE SELECT INPUT  
STBY STANDBY READ FLAG INPUT  
STOP STOP OUTPUT ("L":STOP)  
TCIN LONGITUDINAL TIME AND CONTROL CODE INPUT  
TST1-TST3 TEST INPUT  
VCEI LTC CLOCK INPUT  
VDO HORIZONTAL SYNC DRIVE OUTPUT  
VITC VITC SIGNAL INPUT  
VTGO VITC GATE SIGNAL OUTPUT  
VTO VITC SIGNAL OUTPUT ("H":VITC)



## CXD1151Q (SONY)

C-MOS VIDEO SIGNAL PROCESSOR FOR BETACAM  
- TOP VIEW -

## PIN ASSIGNMENT

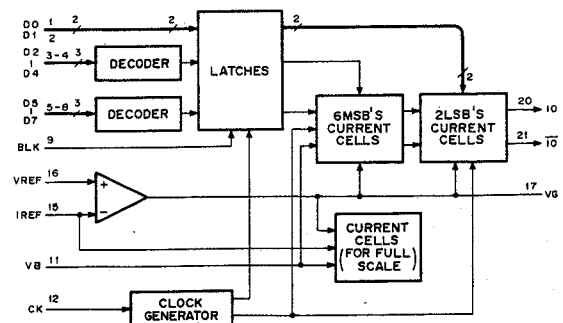
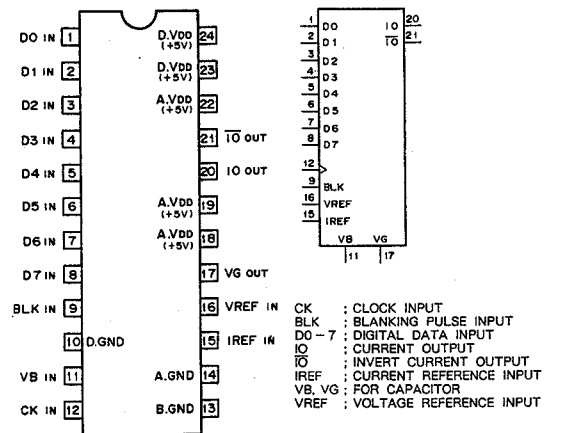
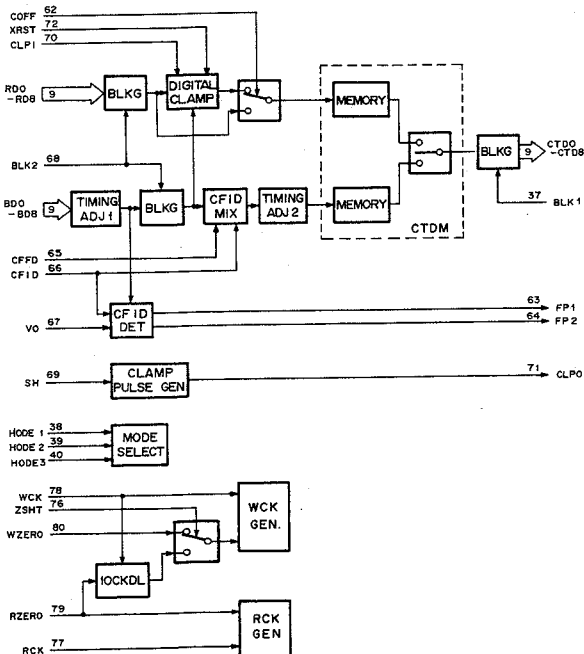
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	RDO	21	I	BD8	41	-	NC	61	-	NC
2	I	RD1	22	-	Vss (GND)	42	-	Vss (GND)	62	I	COFF
3	I	RD2	23	O	TMO	43	O	CTDO	63	I	FP1
4	I	RD3	24	O	TM1	44	O	CTD1	64	I	FP2
5	I	RD4	25	O	TM2	45	O	CTD2	65	I	CFPD
6	I	RD5	26	O	TM3	46	O	CTD3	66	I	CFID
7	I	RD6	27	O	TM4	47	O	CTD4	67	I	VO
8	I	RD7	28	O	TM5	48	O	CTD5	68	I	BLK2
9	I	RD8	29	O	TM6	49	O	CTD6	69	I	SH
10	I	TSL2	30	O	TM7	50	O	CTD7	70	I	CLP1
11	I	TSL3	31	O	TM8	51	O	CTD8	71	O	CLP0
12	-	Vss (GND)	32	O	TM9	52	-	Vss (GND)	72	I	XRST
13	I	BD0	33	I	VDD(+5V)	53	NC	73	I	VDD(+5V)	
14	I	BD1	34	I	TMOD	54	NC	74	I	TST1	
15	I	BD2	35	I	TMEN	55	NC	75	I	TST2	
16	I	BD3	36	I	TSL1	56	NC	76	I	ZSHT	
17	I	BD4	37	I	BLK1	57	NC	77	I	RCK	
18	I	BD5	38	I	MODE1	58	NC	78	I	WCK	
19	I	BD6	39	I	MODE2	59	NC	79	I	RZERO	
20	I	BD7	40	I	MODE3	60	NC	80	I	WZERO	

1	RDO	CTD0	43	BD0-BD8	R-Y DATA INPUTS
2	RD1	CTD1	44	BD0-BD8	B-Y DATA INPUTS
3	RD2	CTD2	45	COFF	DIGITAL CLAMP CIRCUIT CONTROL INPUT
4	RD3	CTD3	46	XRST	DIGITAL CLAMP CIRCUIT RESET PULSE INPUT
5	RD4	CTD4	47	CLP1	CLAMP PULSE INPUT FOR DIGITAL CLAMP
6	RD5	CTD5	48	CFPD	CLAMP PULSE INPUT FOR COLOR FRAMING ID MIX
7	RD6	CTD6	49	CFID	FIELD SIGNAL INPUT FOR COLOR FRAMING ID MIX
8	RD7	CTD7	50	VO	PULSE INPUT FOR COLOR FRAMING ID MIX
9	RD8	CTD8	51	SH	COLOR FRAMING DETECT CIRCUIT RESET PULSE INPUT
10			52	BLK1, BLK2	TRIGGER INPUT FOR CLPO OUTPUT
11			53	TSL1	BLKG PULSE INPUTS
12			54	TSL2, TSL3	MEMORY SELECT INPUT IN TEST MODE
13	BD0	FP1	55	TMOD	TEST INPUTS
14	BD1	FP2	56	TMEN	TEST MODE CONTROL INPUT
15	BD2	CLP0	57	TMEN	MEMORY ADD CONTROL INPUT IN TEST MODE
16	BD3	TM0	58	TST1, TST2	DIGITAL CLAMP CIRCUIT TEST CONTROL INPUTS
17	BD4	TM1	59	WCK	WRITE CLOCK INPUT
18	BD5	TM2	60	RCK	READ CLOCK INPUT
19	BD6	TM3	61	WZERO	WRITE ZERO INPUT
20	BD7	TM4	62	RZERO	READ ZERO INPUT
21	BD8	TM5	63	ZSHT	INTERNAL/EXTERNAL WZERO SELECT INPUT
22		TM6	64	CTD0-CTD8	CTDM DATA OUTPUTS
23		TM7	65	FP1, FP2	COLOR FRAMING DETECT PULSE OUTPUTS
24		TM8	66	CLP0	CLAMP PULSE OUTPUT
25		TM9	67	TM0-TM9	DIGITAL CLAMP CIRCUIT TEST SIGNAL OUTPUTS
26			68	MODE1-MODE3	MODE SELECT INPUTS
27			69		
28			70		
29			71		
30			72		
31			73		
32			74		
33			75		
34			76		
35			77		
36			78		
37			79		
38			80		

MODE1	1	0	1	0	1	0	1	0
MODE2	1	0	1	0	1	0	1	0
MODE3	1	0	1	0	1	0	1	0
nH	910fH	858fH	909fH	X	908fH	864fH	1135fH	TCLR

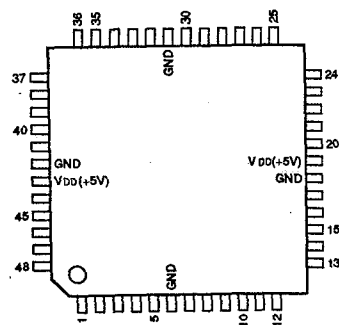
0: LOW LEVEL 1: HIGH LEVEL

## CXD1171M (SONY) FLAT PACKAGE

C-MOS 8-BIT D/A CONVERTER  
- TOP VIEW -PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)



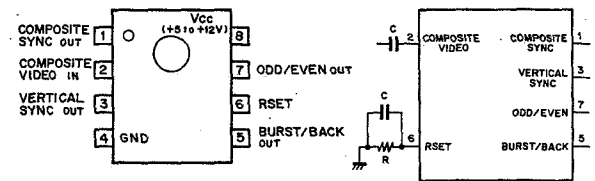
CXD1357Q (FUJITSU)  
C-MOS VIDEO RF TIMING DECODER  
- TOP VIEW -



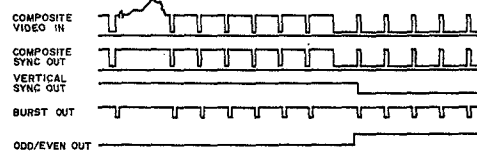
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	-	-	25	I	STA
2	O	PBC1	26	I	REC1
3	O	PBC2	27	O	RSW1
4	O	PBC3	28	O	RSW2
5	O	PBC4	29	O	RSW3
6	-	GND	30	O	RSW4
7	O	PBY1	31	-	GND
8	O	PBY2	32	O	PBW1
9	O	PBY3	33	O	PBW2
10	O	PBY4	34	O	PBW3
11	O	XREC	35	O	PBW4
12	O	RECL	36	I	MOD
13	O	PWRF	37	O	FVD
14	O	EQ1	38	I	PBH
15	O	EQ2	39	O	CSWP
16	O	EQ3	40	O	YSWP
17	O	EQ4	41	O	FRM
18	-	GND	42	-	GND
19	-	VDD	43	-	VDD
20	O	HLPO	44	O	ALYC
21	I	HLPI	45	I	CNTI
22	O	AFVO	46	I	CNTO
23	I	DFVI	47	I	ALMI
24	I	TRG	48	O	ALMO

47	ALMI	AFVO	22
45	CNTI	ALMO	44
23	DFVI	CNTO	46
21	HLPI	CSWP	39
36	MOD	EQ1	14
38	PBH	EQ2	15
26	REC1	EQ3	16
25	STA	EQ4	17
24	TRG	FRM	41
		FVD	37
		HLPO	20
		PBC1	2
		PBC2	3
		PBC3	4
		PBC4	5
		PBW1	32
		PBW2	33
		PBW3	34
		PBW4	35
		PBY1	7
		PBY2	8
		PBY3	9
		PBY4	10
		PWRF	13
		RECL	12
		RSW1	27
		RSW2	28
		RSW3	29
		RSW4	30
		XREC	11
		YSWP	40

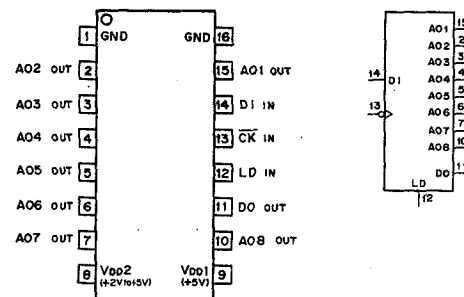
LM1881M (NS) FLAT PACKAGE  
VIDEO SYNC SEPARATOR  
- TOP VIEW -



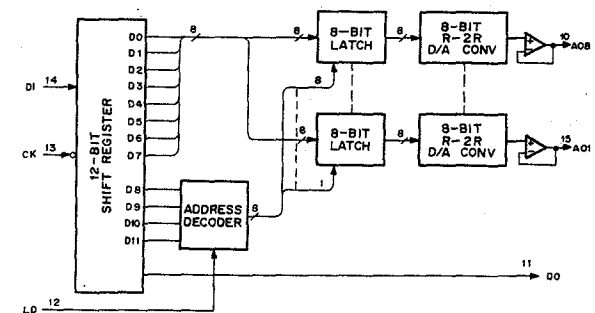
TIMING CHART



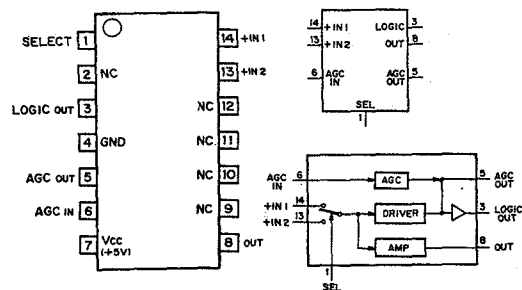
MB88347PFV-G-BND (FUJITSU) FLAT PACKAGE  
C-MOS 8-BIT D/A CONVERTER  
- TOP VIEW -



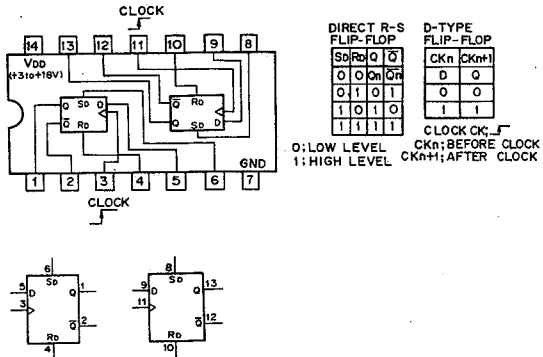
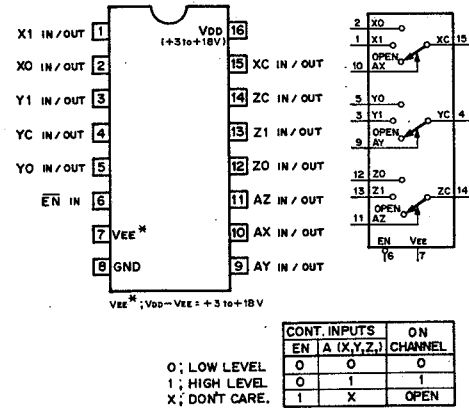
A01 - A012 : 8-BIT D/A OUTPUTS  
CK : CLOCK INPUT  
DI : SERIAL DATA INPUT  
DO : DATA OUTPUT  
LD : DATA LOAD CONTROL INPUT (H : LOAD)



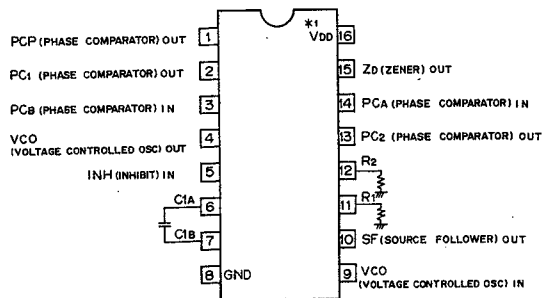
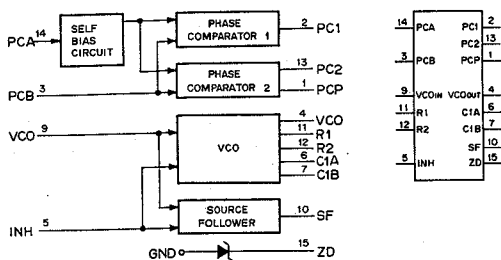
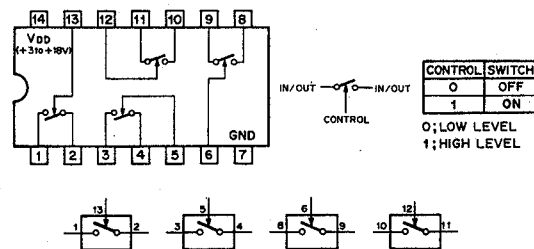
LA7205M (SANYO)  
AGC AMP, INPUT SELECT, AGC DET, COMPARTOR  
- SIDE VIEW -



## MC14013BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET  
- TOP VIEW -HD14053BFP (HITACHI) FLAT PACKAGE  
TC4053BFS (TOSHIBA) FLAT PACKAGEC-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS  
- TOP VIEW -

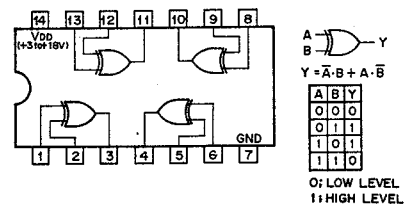
## MC14046BF (MOTOROLA) FLAT PACKAGE

C-MOS PHASE LOCKED LOOP  
- TOP VIEW -MC14066BF (MOTOROLA) FLAT PACKAGE  
TC4066BFS (TOSHIBA) FLAT PACKAGEC-MOS QUAD BILATERAL ANALOG SWITCH  
- TOP VIEW -

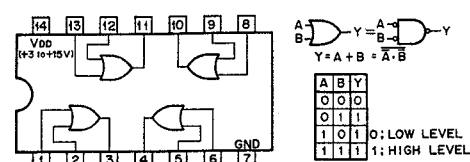
\* 1

TYPE	VDD
CD4046BE	+3 to +8V
HD14046BP	
MC14046BCP	
MC14046BF	
TC4046BP	
MC74HC4046AF	+2 to +6V
MC74HC4046AN	

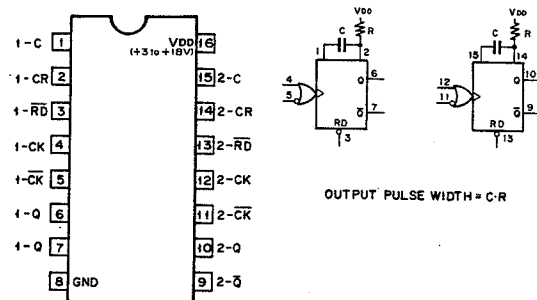
## MC14070BF (MOTOROLA) FLAT PACKAGE

C-MOS QUAD EXCLUSIVE OR GATES  
- TOP VIEW -

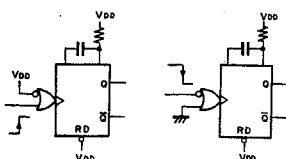
## MC14071BF (MOTOROLA) FLAT PACKAGE

C-MOS 2-INPUT OR GATE  
- TOP VIEW -

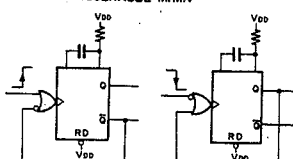
MC14538BF (MOTOROLA) FLAT PACKAGE  
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS  
- TOP VIEW -



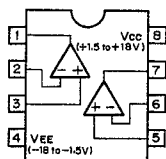
RETRIGGERABLE M.M.V



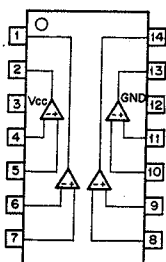
NON-RETRIGGERABLE M.M.V



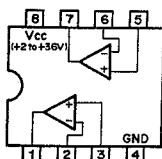
MC34182M (MOTOROLA) FLAT PACKAGE  
OPERATIONAL AMPLIFIER  
(J FET INPUT)  
- TOP VIEW -



LM2901M (MOTOROLA) FLAT PACKAGE  
SINGLE SUPPLY COMPARATOR  
- TOP VIEW -

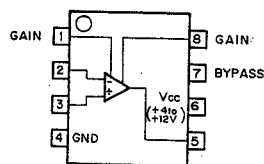


LM2903M (RAYTHEON) FLAT PACKAGE  
NJM2903M (JRC) FLAT PACKAGE  
DUAL VOLTAGE COMPARATORS  
- TOP VIEW -

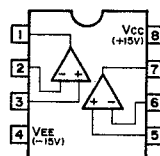


PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

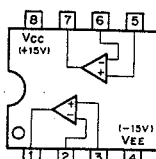
NJM386M (JRC) FLAT PACKAGE  
AUDIO POWER AMPLIFIER  
- TOP VIEW -



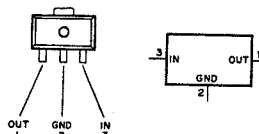
NJM4556M (JRC) FLAT PACKAGE  
OPERATIONAL AMPLIFIER  
(WIDE BAND, DECOMPENSATED)  
- TOP VIEW -



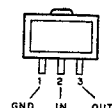
NJM4558M (JRC) FLAT PACKAGE  
NJM4560MD (JRC) FLAT PACKAGE  
DUAL OPERATIONAL AMPLIFIER  
- TOP VIEW -



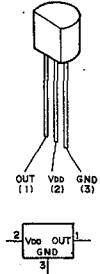
NJM78L05UA (JRC) +5 V (100 mA)  
POSITIVE VOLTAGE REGULATOR  
- SIDE VIEW -



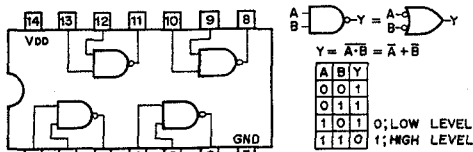
RH5RE50AA (RICOH) +5.0V  
THREE TERMINAL POSITIVE VOLTAGE REGULATOR  
- TOP VIEW -



S-8054ALR (SEIKO I AND E) 4.30V - 4.60V  
S-8054HN (SEIKO I AND E) 3.80V - 4.20V  
C-MOS VOLTAGE DETECTOR



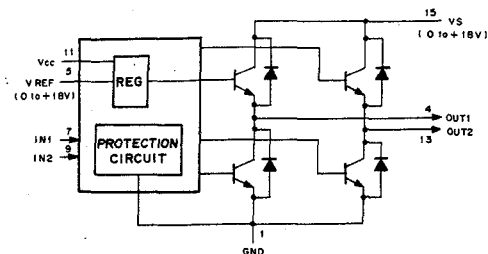
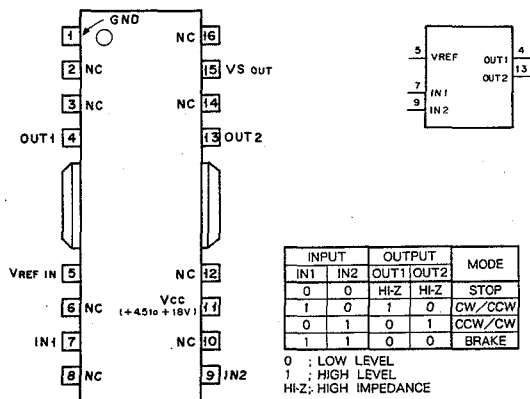
SN74HC04ANS (TI) FLAT PACKAGE  
C-MOS HEX INVERTERS  
- TOP VIEW -



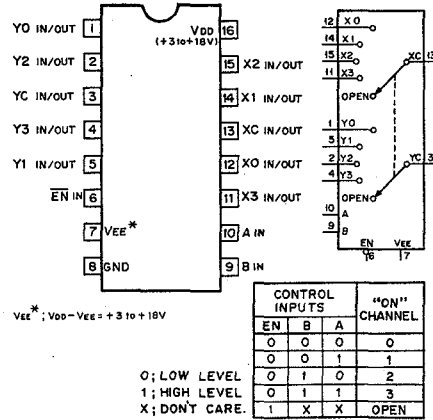
NOTE:

TYPE	V <sub>DD</sub>
TC74AC00 TYPE	+2 to +5.5V
TC74VHC00	+5V
MC74HCT00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

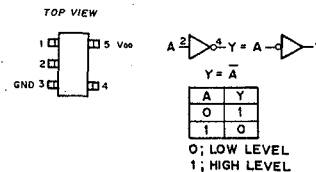
TA7291F (TOSHIBA) FLAT PACKAGE  
DC MOTOR FULLBRIDGE DRIVER  
- TOP VIEW -



TC4052BFHB (TOSHIBA) FLAT PACKAGE  
C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXERS/DEMULTIPLEXERS  
- TOP VIEW -

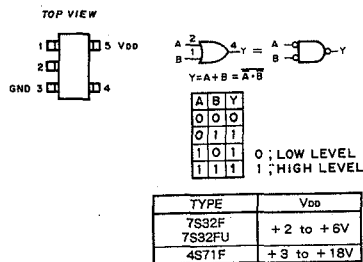


TC4SU69F (TOSHIBA) CHIP PACKAGE  
TC7S04F (TOSHIBA) CHIP PACKAGE  
C-MOS INVERTER



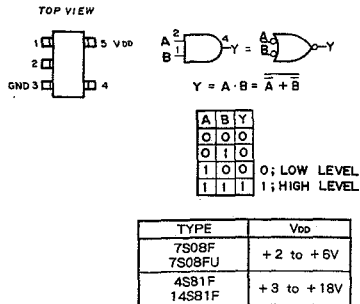
TYPE	V <sub>DD</sub>
7S04F	+2 to +6V
7SU04F	+2 to +6V
4S69F	+3 to +18V
4SU69F	+3 to +18V

TC4S71F (TOSHIBA) CHIP PACKAGE  
C-MOS 2-INPUT OR GATE

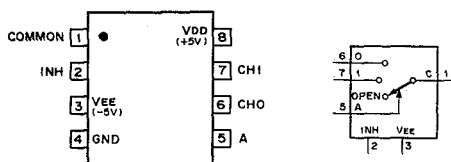


TYPE	V <sub>DD</sub>
7S32F	+2 to +6V
7S32FU	+2 to +6V
4S71F	+3 to +18V

TC4S81F (TOSHIBA) CHIP PACKAGE  
CMOS 2-INPUT AND GATE



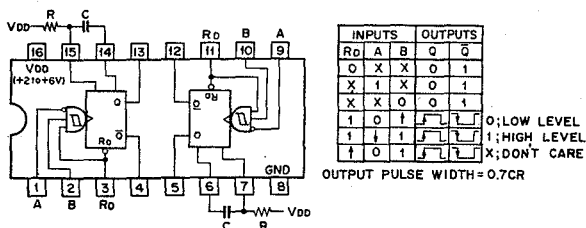
TC4W53F (TOSHIBA) FLAT PACKAGE  
CMOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER  
- TOP VIEW -



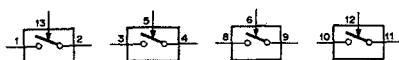
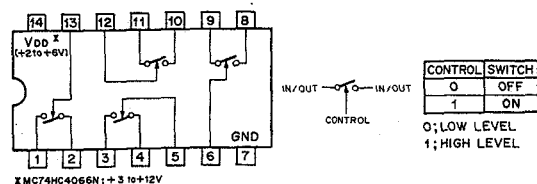
0: LOW LEVEL  
1: HIGH LEVEL  
X: DON'T CARE

CONT. INPUT		ON CHANNEL	
INH	A		
0	0	0	
0	1	1	
1	X	OPEN	

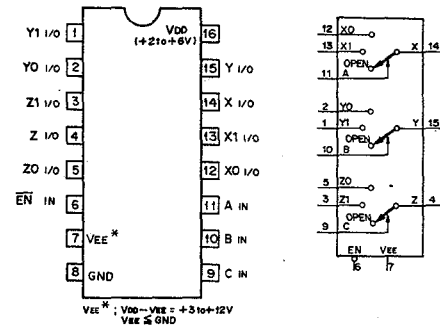
TC74HC221AF (TOSHIBA) FLAT PACKAGE  
CMOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT  
- TOP VIEW -



TC74HC4066AFS (TOSHIBA) FLAT PACKAGE  
CMOS BILATERAL ANALOG SWITCH  
- TOP VIEW -



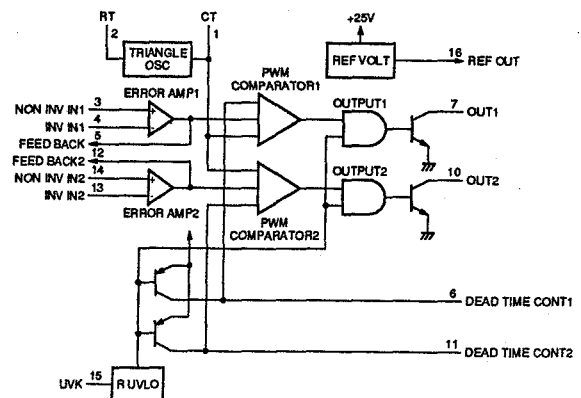
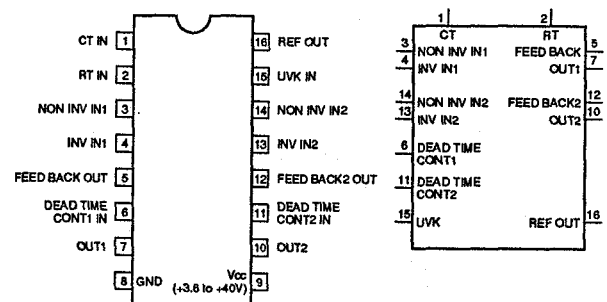
TC74HC4053AF (TOSHIBA) FLAT PACKAGE  
CMOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER  
- TOP VIEW -



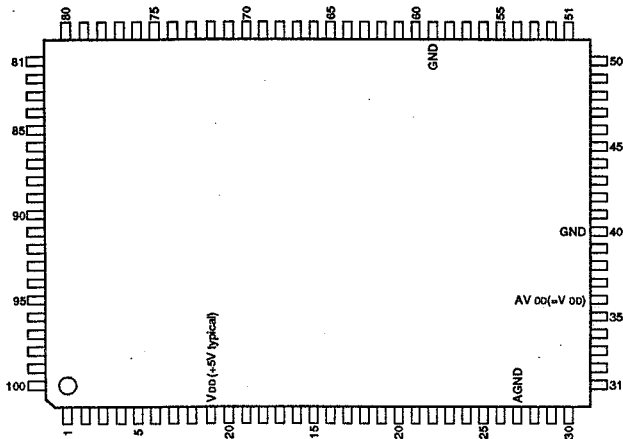
CONTROL INPUTS				ON CHANNEL		
EN	SELECT					
	C	B	A			
0	0	0	0	Z0	Y0	X0
0	0	0	1	Z0	Y0	X1
0	0	1	0	Z0	Y1	X0
0	0	1	1	Z0	Y1	X1
0	1	0	0	Z1	Y0	X0
0	1	0	1	Z1	Y0	X1
0	1	1	0	Z1	Y1	X0
0	1	1	1	Z1	Y1	X1
1	X	X	X	OPEN		

0: LOW LEVEL  
1: HIGH LEVEL  
X: DON'T CARE

TL1453CNS (TI) FLAT PACKAGE  
DUAL SWITCHING REGULATOR CONTROLLER  
- TOP VIEW -



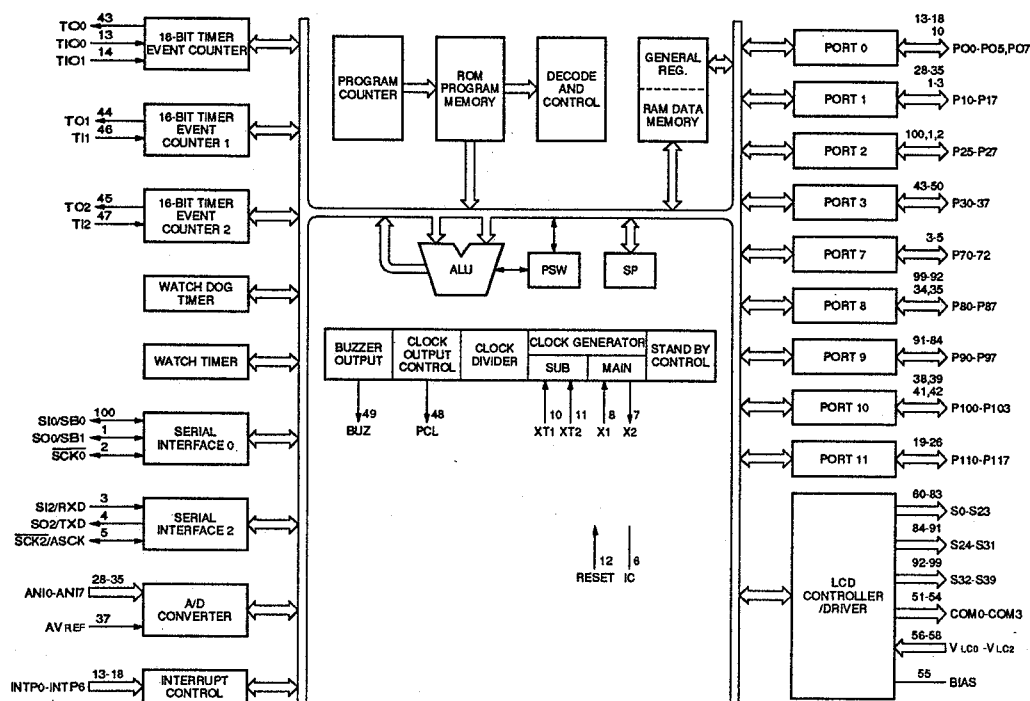
UPD78064GF-3BA (NEC)  
 UPD78P064GF-3BA (NEC)  
 C-MOS 8BIT SINGLE CHIP MICROCOMPUTER  
 — TOP VIEW —



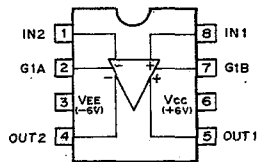
(V DD = +2.7 to +6V)

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I/O	P26/SO0/SB1	26	I/O	P117	51	O	COM0	76	O	S16
2	I/O	P27/SCK0	27	—	AGND	52	O	COM1	77	O	S17
3	I/O	P70/SI2/RXD	28	I/O	P10/ANI0	53	O	COM2	78	O	S18
4	O	P71/SO2/TXD	29	I/O	P11/ANI1	54	O	COM3	79	O	S19
5	I/O	P72/SCK2/ASCK	30	I/O	P12/ANI2	55	—	BIAS	80	O	S20
6	—	IC	31	I/O	P13/ANI3	56	—	V LCC	81	O	S21
7	—	X2	32	I/O	P14/ANI4	57	—	V LC1	82	O	S22
8	I	X1	33	I/O	P15/ANI5	58	—	V LC2	83	O	S23
9	—	VDD	34	I/O	P16/ANI6	59	—	GND	84	I/O	P97/S24
10	I	P07/XT1	35	I/O	P17/ANI7	60	O	S0	85	I/O	P96/S25
11	—	XT2	36	—	AVDD	61	O	S1	86	I/O	P95/S26
12	I	RESET	37	I	AVREF	62	O	S2	87	I/O	P94/S27
13	I	PO0/INTPO/TIO0	38	I/O	P100	63	O	S3	88	I/O	P93/S28
14	I/O	PO1/INTP1/TIO1	39	I/O	P101	64	O	S4	89	I/O	P92/S29
15	I/O	PO2/INTP2	40	—	GND	65	O	S5	90	I/O	P91/S30
16	I/O	PO3/INTP3	41	I/O	P102	66	O	S6	91	I/O	P90/S31
17	I/O	PO4/INTP4	42	I/O	P103	67	O	S7	92	I/O	P87/S32
18	I/O	PO5/INTP5	43	I/O	P30/T00	68	O	S8	93	I/O	P86/S33
19	I/O	P110	44	I/O	P31/T01	69	O	S9	94	I/O	P85/S34
20	I/O	P111	45	I/O	P32/T02	70	O	S10	95	I/O	P84/S35
21	I/O	P112	46	I/O	P33/T11	71	O	S11	96	I/O	P83/S36
22	I/O	P113	47	I/O	P34/T12	72	O	S12	97	I/O	P82/S37
23	I/O	P114	48	I/O	P35/PCL	73	O	S13	98	I/O	P81/S38
24	I/O	P115	49	I/O	P36/BUZ	74	O	S14	99	I/O	P80/S39
25	I/O	P116	50	I/O	P37	75	O	S15	100	I/O	P25/SI0/SB0

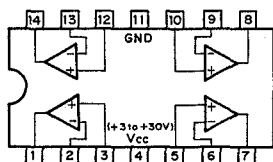
13	PO0/INTPO/TIO0	P70/SI2/RXD	3	INPUT
14	PO1/INTP1/TIO1	P71/SO2/TXD	4	ANI0-ANI7 ; ANALOG 0-7 (A/D CONVERTER)
15	PO2/INTP2	P72/SCK2/ASCK	5	ASCK ; ASYNCHRONOUS SERIAL CLOCK
16	PO3/INTP3		6	AVREF ; ANALOG REFERENCE VOLTAGE (A/D CONVERTER)
17	PO4/INTP4	P80/S39	99	INTP0-INTP5 ; INTERRUPT FROM PERIPHERALS 0-5
18	PO5/INTP5	P81/S38	98	PO0, PO7 ; PORT 0
19		P82/S37	97	RESET ; RESET
10	P07/XT1	P83/S36	96	RXD ; RECEIVE DATA
11	XT2	P84/S35	95	SI0, SI2 ; SERIAL DATA 0, 2
28		P85/S34	94	TIO0 ; EXTERNAL COUNT CLOCK 0
29	P10/ANI0	P86/S33	93	TIO1 ; CAPTURE TRIGGER
30	P11/ANI1	P87/S32	92	T11, T12 ; EXTERNAL COUNT CLOCK 1, 2
31	P12/ANI2			X1, X2 ; CRYSTAL 1, 2 (MAIN SYSTEM CLOCK)
32	P13/ANI3	P90/S31	91	XT1, XT2 ; CRYSTAL 1, 2 (SUB SYSTEM CLOCK)
33	P14/ANI4	P91/S30	90	
34	P15/ANI5	P92/S29	89	OUTPUT
35	P16/ANI6	P93/S28	88	BUZ ; BUZZER CLOCK
36	P17/ANI7	P94/S27	87	COM0-COM3 ; COMMON DATA
100	P25/SI0/SB0	P95/S26	86	PCL ; PROGRAMMABLE CLOCK
1	P26/SO0/SB1	P96/S25	85	S0-S39 ; SEGMENT DATA
2	P27/SCK0	P97/S24	84	SO0, SO2 ; SERIAL DATA 0, 2
43	P30/T00		83	TO0-T02 ; TIMER 0-2
44	P31/T01	S23	82	TXD ; TRANSMIT DATA
45	P32/T02	S22	81	
46	P33/T11	S21	80	INPUT/OUTPUT
47	P34/T12	S20	79	PO1-PO5 ; PORT 0
48	P35/PCL	S19	78	P10-P17 ; PORT 1
49	P36/BUZ	S18	77	P25-P27 ; PORT 2
50	P37	S17	76	P30-P37 ; PORT 3
37	AV REF	S16	75	P70-P72 ; PORT 7
6	IC	S15	74	P80-P87 ; PORT 8
8	RESET	S14	73	P90-P97 ; PORT 9
7	X1	S13	72	P100-P103 ; PORT 10
12	X2	S12	71	P110-P117 ; PORT 11
		S11	70	SB0, SB1 ; SERIAL DATA BUS 0, 1
		S10	69	SCK0, SCK2 ; SERIAL CLOCK 0, 2
		S9	68	OTHER
		S8	67	BIAS ; LCD POWER SUPPLY BIAS CONTROL
		S7	66	IC ; INTERNALLY CONNECTED
		S6	65	V LCC - V LC2 ; LCD POWER SUPPLY
		S5	64	
		S4	63	
		S3	62	
		S2	61	
		S1	60	
		S0	59	
		P100	38	
		P101	39	
		P102	41	
		P103	42	
		P110	19	
		P111	20	
		P112	21	
		P113	22	
		P114	23	
		P115	24	
		P116	25	
		P117	26	
		COM0	51	
		COM1	52	
		COM2	53	
		COM3	54	
		BIAS	55	
		V LCC	56	
		V LC1	57	
		V LC2	58	



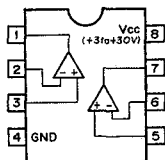
UPC1663G (NEC) FLAT PACKAGE  
WIDEBAND VIDEO AMPLIFIER  
- TOP VIEW -



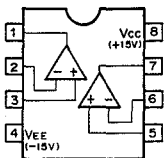
UPC324G2 (NEC) FLAT PACKAGE  
QUAD OPERATIONAL AMPLIFIERS  
- TOP VIEW -



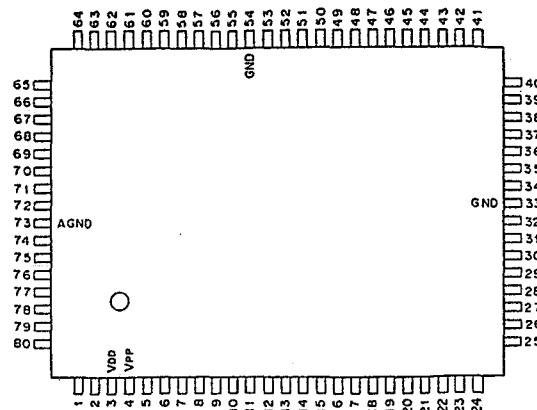
UPC358G2 (NEC) FLAT PACKAGE  
DUAL OPERATIONAL AMPLIFIERS  
- TOP VIEW -



UPC4572G2 (NEC) FLAT PACKAGE  
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)  
- TOP VIEW -



UPD75P516GF (NEC)  
C-MOS 4-BIT MICROCOMPUTER  
- TOP VIEW -



(V<sub>DD</sub> = +5V, V<sub>PP</sub> = FOR PROGRAMMING)

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	AND	21	I/O	P73/KR7	41	I/O	P30/MD0	61	I/O	P143
2	I	A V <sub>REF</sub>	22	I/O	P72/KR6	42	I/O	P23/BUZ	62	I/O	P142
3	-	V <sub>DD</sub>	23	I/O	P71/KR5	43	I/O	P22/PCL	63	I/O	P141
4	-	V <sub>PP</sub>	24	I/O	P70/KR4	44	I/O	P21	64	I/O	P140
5	I/O	P113	25	I/O	P63/KR3	45	I/O	P20/PC0	65	I/O	P133
6	I/O	P112	26	I/O	P62/KR2	46	I	P13/T10	66	I/O	P132
7	I/O	P111	27	I/O	P61/KR1	47	I	P12/INT2	67	I/O	P131
8	I/O	P110	28	I/O	P60/KR0	48	I	P11/INT1	68	I/O	P130
9	I/O	P103	29	I/O	P53	49	I	P10/INT0	69	I/O	P123
10	I/O	P102	30	I/O	P52	50	I/O	PC3/SIO/SB1	70	I/O	P122
11	I/O	P101	31	I/O	P51	51	I/O	PO2/SC0/SB0	71	I/O	P121
12	I/O	P100	32	I/O	P50	52	I/O	PO1/SC0	72	I/O	P120
13	I/O	P93	33	-	GND	53	I	PO0/INT4	73	-	AGND
14	I/O	P92	34	I/O	P43	54	-	GND	74	I	P153/AN7
15	I/O	P91	35	I/O	P42	55	I	XT1	75	I	P152/AN6
16	I/O	P90	36	I/O	P41	56	-	XT2	76	I	P151/AN5
17	I	P83/SI1	37	I/O	P40	57	-	IC(GND)	77	I	P150/AN4
18	I/O	P82/SO1	38	I/O	P33/MD3	58	I	X1	78	I	AN3
19	I/O	P81/SCK1	39	I/O	P32/MD2	59	I	X2	79	I	AN2
20	I/O	P80/PP0	40	I/O	P31/MD1	60	I	RESET	80	I	AN1



## SECTION 16

### SPARE PARTS AND OPTIONAL FIXTURES

#### 16-1. NOTES ON REPAIR PARTS

##### (1) Safety Related Components Warning

Components marked with  $\Delta$  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation.

Replace these components with Sony parts whose part numbers appear in this manual or in service bulletins and service manual supplements published by Sony.

##### (2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present".

##### (3) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

##### (4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

Capacitors :  $\mu F$

Inductors :  $\mu H$

Resistors :  $\Omega$

##### (5) Tension Spring

( $\times T$ ) after a tension spring is shown on the parts list in order to indicate the number of spring turns required for the use.

(Example) TENSION, SPRING (20T):

This spring must be cut at its 20th turn for actual use.

#### 16-1. 補修用部品注意事項

##### (1) 安全重要部品

回路図、分解図、電気部品表中、 $\Delta$ 印の部品は安全性を維持するために重要な部品です。従ってこれらの部品を交換するときには必ず指定の部品と交換して下さい。

##### (2) 部品の共通化

ソニーから供給される部品は、セットに実装されているものと異なることがあります。これは部品の共通化、改良等によるものです。

分解図や電気部品表には現時点での共通化された部品が記載されています。

##### (3) 部品の在庫

部品表のSP (Supply code) 欄に o で示される部品は交換頻度が低い部品ですので在庫していないことがあり、納期が長くなることがあります。

##### (4) コンデンサー、インダクター、抵抗の単位

回路図、分解図、電気部品表中、特に明記したものを除き、下記の単位は省略されています。

コンデンサー :  $\mu F$

インダクター :  $\mu H$

抵抗 :  $\Omega$

##### (5) 引張コイルバネ

部品表中の引張コイルバネの名称のあとの( $\times T$ )は、使用時の巻数を示しています。

(例) TENSION, SPRING (20T)

巻数が20になるように切断し、使用する。

#### 16-2. EXPLODED VIEW

(1) Reel Chassis .....	16-2
(2) Slant .....	16-4
(3) Drum .....	16-6
(4) Loading Gear/Pinch Arm .....	16-8
(5) Cam Gear .....	16-10
(6) Pinch Press Mechanism .....	16-12
(7) CTL Head Base .....	16-14
(8) A/T Head Base .....	16-16

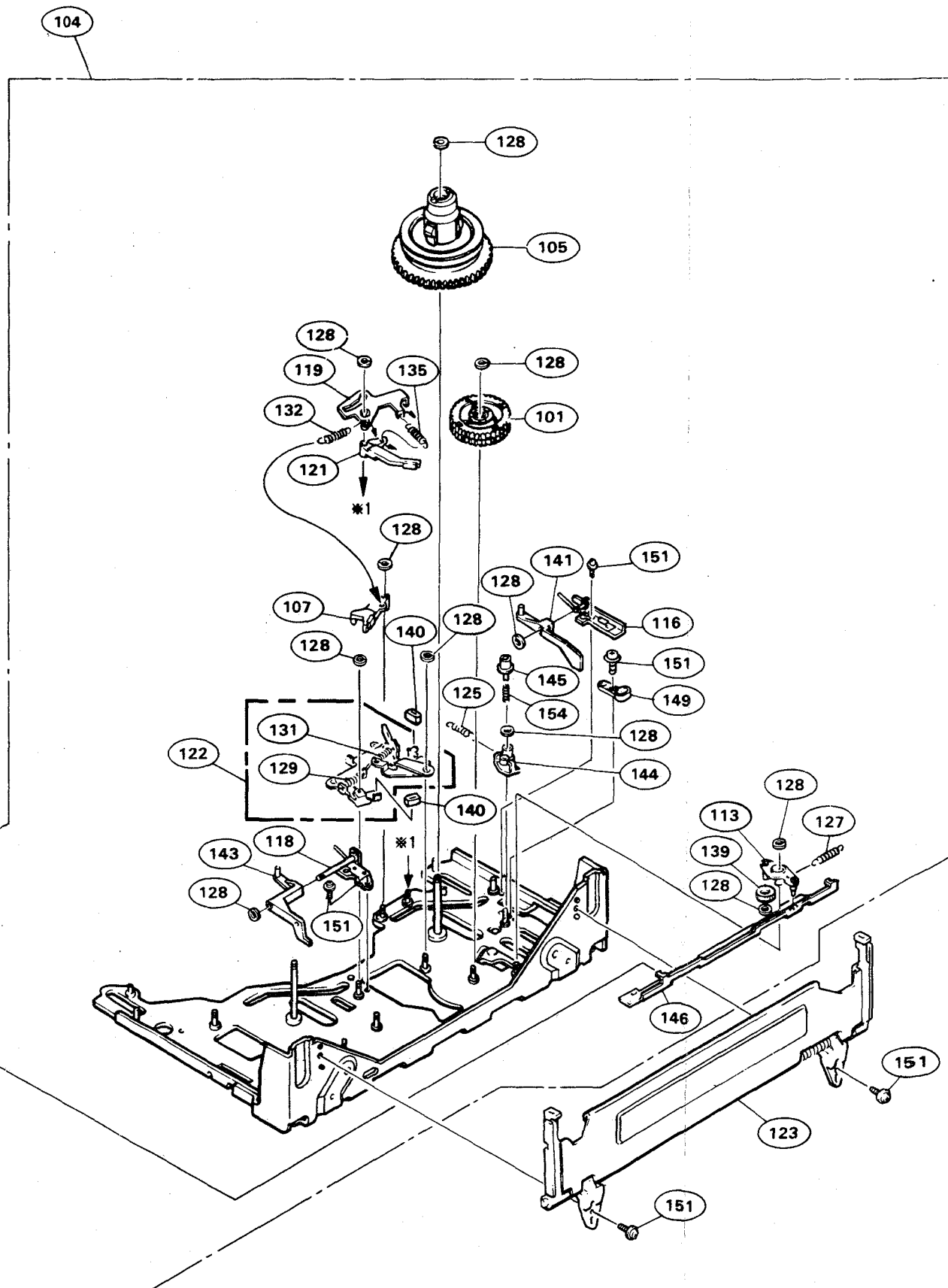
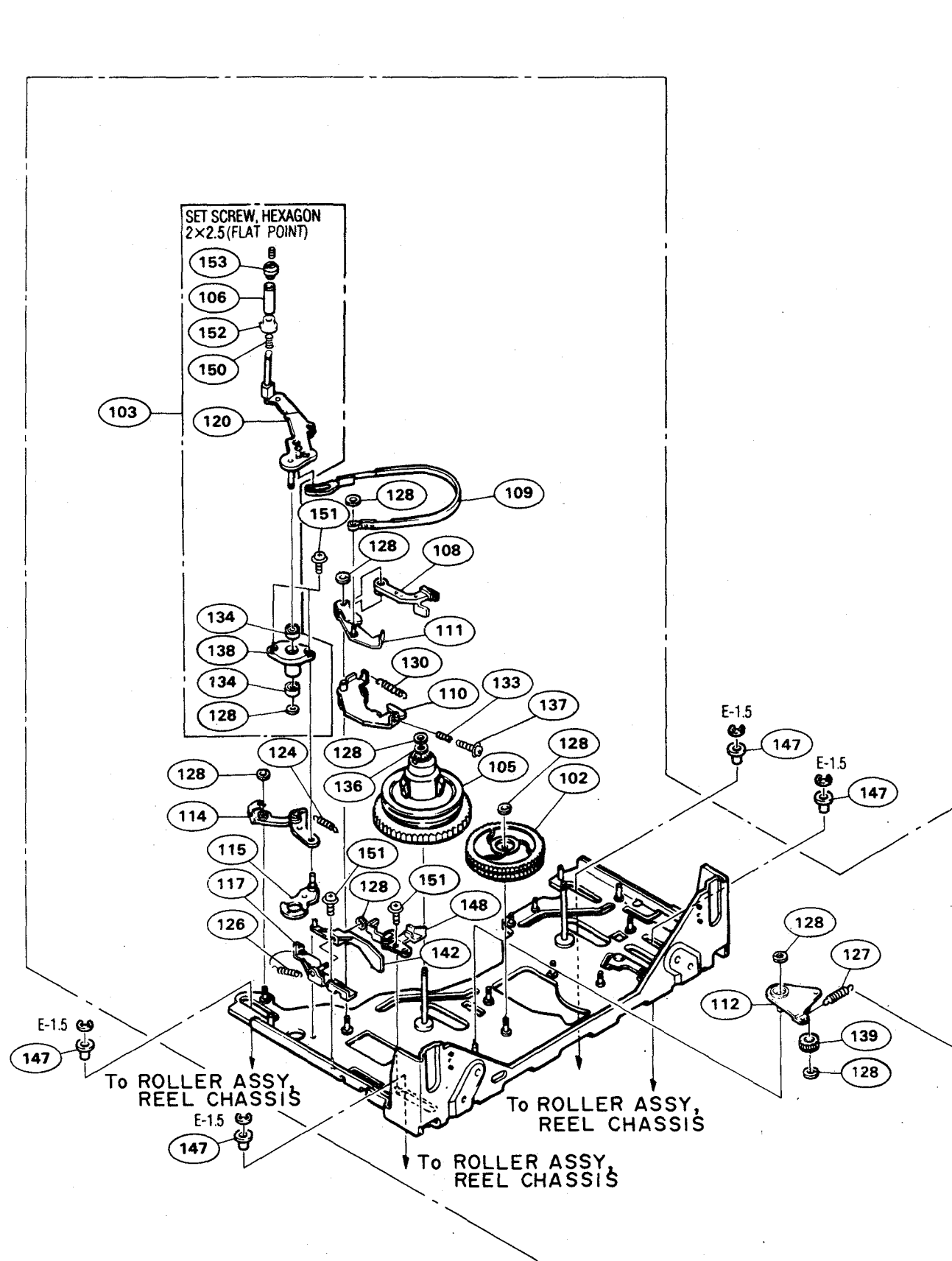
(9) Cassette-Up Compartment .....	16-18
(10) Top Frame/Front Frame .....	16-20
(11) Bottom Frame/Rear Frame .....	16-22
(12) Left Side Plate .....	16-24
(13) Right Side Plate .....	16-26
(14) Battery Case .....	16-28

## REEL CHASSIS

### REEL CHASSIS

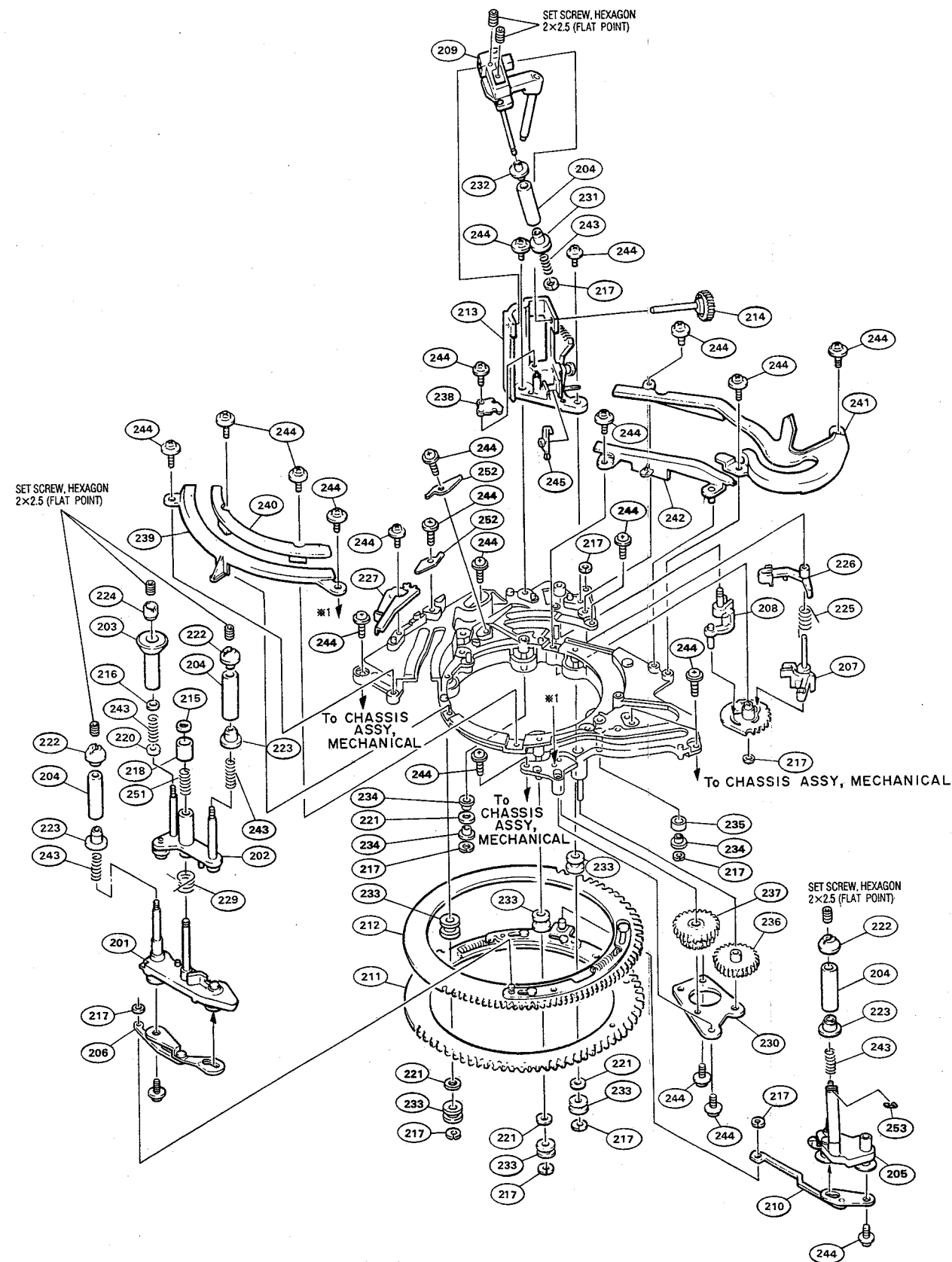
No.	Part No.	SP Description
101	A-6740-091-D	s IDLER ASSY, T
102	A-6740-092-D	s IDLER ASSY, S
103	A-6742-067-K	s TENSION REGULATOR ASSY
104	A-6771-030-G	s CHASSIS ASSY, REEL
105	X-3722-321-3	s TABLE ASSY, REEL
106	X-3722-322-2	s ROLLER ASSY, POM
107	X-3722-323-2	s BRAKE ASSY, T SOFT
108	X-3722-324-3	s BRAKE ASSY, S SOFT
109	X-3722-325-2	s BAND ASSY, TENSION REGULATOR
110	X-3722-326-3	o LEVER (A) ASSY, SUPPORT LEVER
111	X-3722-327-3	o SUPPORT (B) ASSY, BAND
112	X-3722-328-1	o ARM ASSY, S JOINT GEAR
113	X-3722-329-1	o ARM ASSY, T JOINT GEAR
114	X-3722-330-1	o HOOK ASSY, SPRING
115	X-3722-331-1	o DRIVING ASSY, TENSION REGULATOR
116	X-3722-332-1	o HOLDER (A) ASSY
117	X-3722-333-3	o HOLDER (B) ASSY
118	X-3722-334-1	o HOLDER (C) ASSY
119	X-3722-335-2	o LEVER ASSY, PINCH ARM LOCK
120	X-3722-351-8	o ARM ASSY, TENSION REGULATOR
121	X-3722-410-1	s BRAKE ASSY, T SUB SOFT
122	X-3722-421-1	o SLIDER ASSY, BRAKE
123	X-3722-423-1	o PLATE (B) ASSY, BLIND
124	3-489-310-XX	s SPRING, TENSION (18T)
125	3-514-127-01	s SPRING, TENSION
126	3-527-025-00	s SPRING, TENSION
127	3-527-189-11	s SPRING, TENSION
128	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
129	3-564-935-00	s SPRING, TENSION
130	3-567-028-11	s SPRING, TENSION
131	3-570-590-00	s SPRING, TENSION
132	3-570-951-00	s SPRING, TENSION
133	3-573-150-00	s SPRING, COMPRESSION
134	3-669-443-01	s BEARING, BALL (NO FLANGE)
135	3-667-309-00	s SPRING, TENSION
136	3-701-437-21	s WASHER
137	3-703-502-71	s SCREW
138	3-722-325-02	o BOSS, ARM BEARING
139	3-722-344-01	s GEAR, JOINT
140	3-722-354-01	o RUBBER, BRAKE
141	3-722-357-01	s LEVER (A), REC, MISTAKE
142	3-722-360-01	s LEVER (B), REC, MISTAKE
143	3-722-363-01	s LEVER, METAL DETECTION
144	3-722-367-01	o HOLDER, DETECTION PIN
145	3-722-368-01	o PIN, CASSETTE DETECTION
146	3-722-458-03	o LINK (A), JOINT GEAR
147	3-723-007-01	s ROLLER, LS
148	3-723-011-03	s HOLDER (RIGHT), SLIDE PIN
149	3-723-012-01	s HOLDER (LEFT), SLIDE PIN
150	3-729-011-01	s SPRING, COMPRESSION
151	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD (+P)
152	3-729-026-04	o FLANGE (B), LOWER
153	3-729-079-05	s FLANGE, UPPER, TENSION REGULATOR
154	4-879-762-02	s SPRING, COMPRESSION

REEL CHASSIS



SLANT SLANT

SLANT



## SLANT

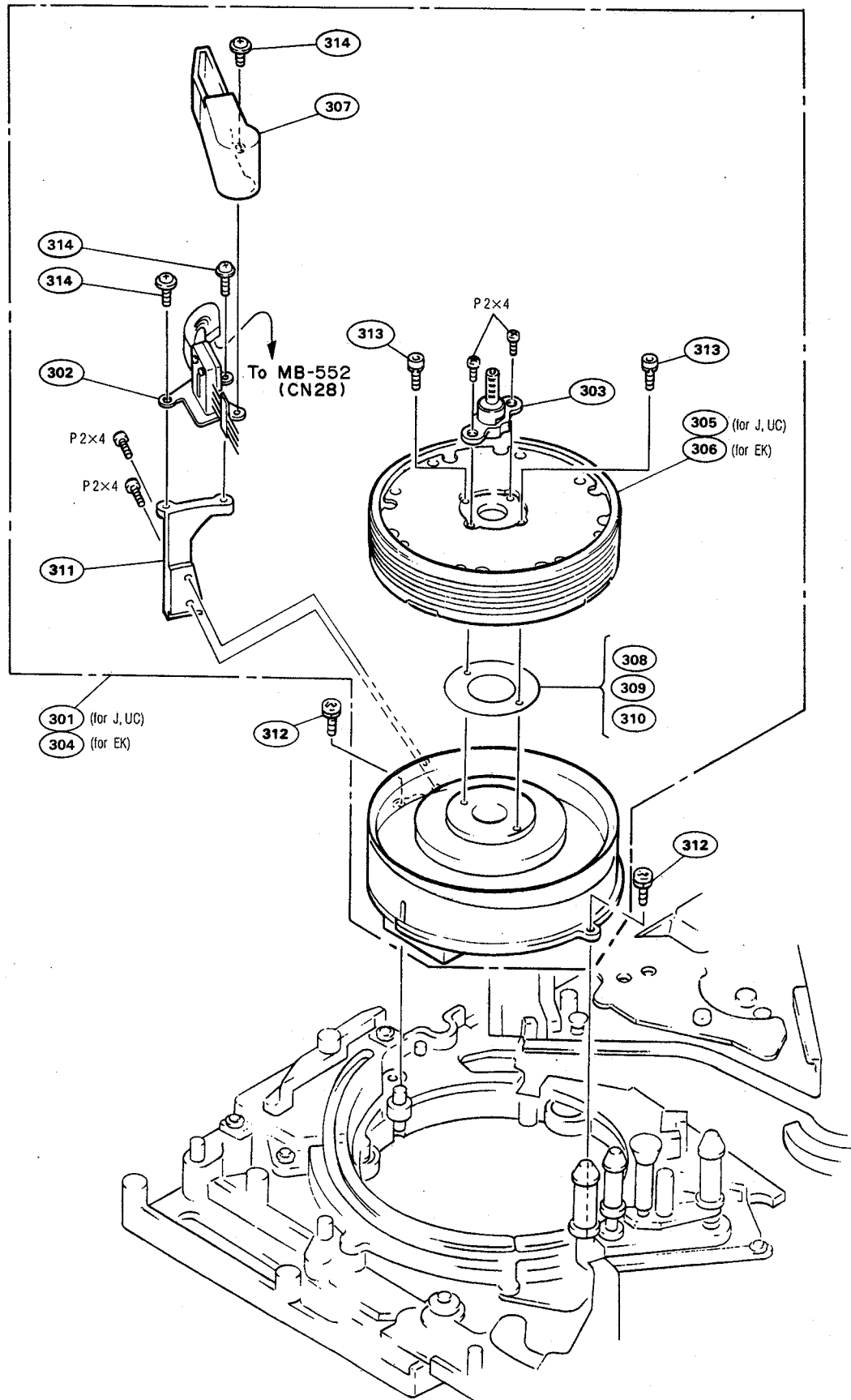
No.	Part No.	SP Description
201	X-3722-313-5	s BASE ASSY, S
202	X-3722-314-3	s BASE ASSY, S SUB
203	X-3722-315-2	s IR-2 ASSY
204	X-3722-319-1	s ROLLER ASSY
205	X-3722-355-5	s BASE ASSY, T
206	X-3722-382-1	o PULL ASSY, S
207	X-3722-383-2	o LINK ASSY, T SUB FIXED
208	X-3722-384-3	o LINK ASSY, T SUB ROTARY
209	X-3722-385-5	s BASE ASSY, T SUB
210	X-3722-386-2	o PLATE ASSY, PULL, T
211	X-3722-388-5	o RING (T) ASSY, LOATING
212	X-3722-389-3	o RING (S) ASSY, LOATING
213	X-3722-390-2	o TABLE ASSY, ROTARY, T SUB
214	X-3722-409-1	o SHAFT ASSY, MAIN, T SUB ROTARY
215	3-321-813-01	s WASHER, COTTER POLYETHYLENE
216	3-557-565-00	s WASHER, 1.4 DAI, SMALL
217	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
218	3-657-842-01	s SPACER (3X4)
220	3-695-567-01	s WASHER, M SLIDER
221	3-701-436-01	s WASHER, 1.6
222	3-722-400-02	s FLANGE (C), UPPER
223	3-722-401-02	s FLANGE (A), LOWER
224	3-722-402-02	o NUT, IR
225	3-724-770-01	o SPRING
226	3-724-772-02	o ARM, T, S FIXED
227	3-724-775-02	o PLATE, OPEN, S
229	3-724-789-02	s SPRING
230	3-724-792-02	o REINFORCEMENT, GEAR
231	3-724-793-02	s FLANGE (A), ROLLER
232	3-724-794-01	s FLANGE (B), ROLLER
233	3-724-799-01	s FLANGE, RING
234	3-725-201-01	s ROLLER, RING
235	3-725-202-02	o ROLLER, SUB
236	3-725-203-01	o GEAR, S DRIVING MIDWAY
237	3-725-204-01	o GEAR, S DRIVING
238	3-725-205-01	o PLATE, ADJUSTMENT, T SUB
239	3-725-214-02	s RAIL (O), S
240	3-725-215-02	s RAIL (I), S
241	3-725-217-04	s RAIL (O), T
242	3-725-218-02	s RAIL (I), T
243	3-729-011-01	s SPRING, COMPRESSION
244	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD(+P)
245	3-729-020-01	o PLATE, FIXED, T SUB
251	4-879-762-02	s SPRING, COMPRESSION
252	3-179-393-01	s RETAINER, GUIDE
253	3-179-394-01	s GUIDE, H

## DRUM

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DRUM  
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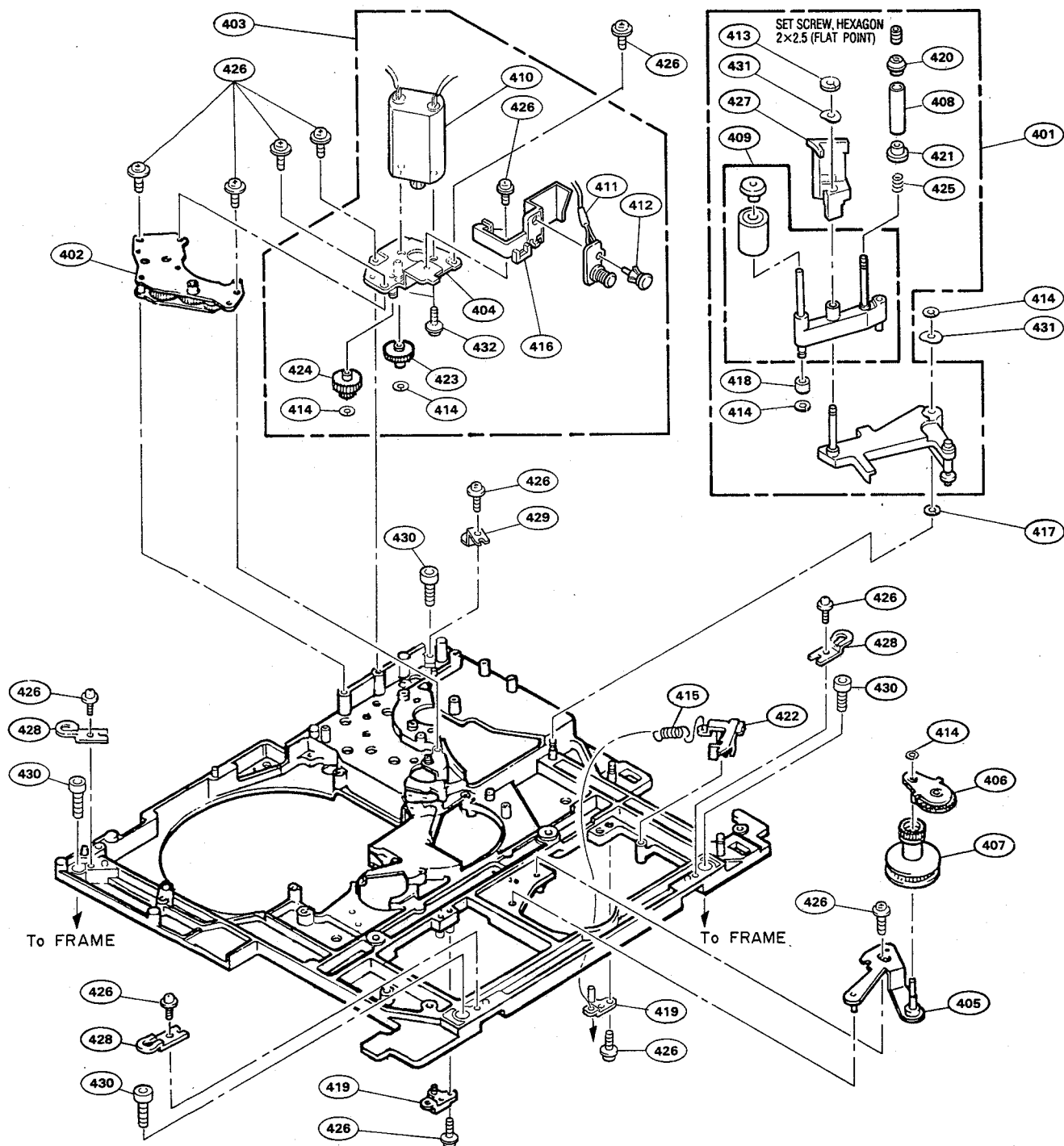
No.	Part No.	SP Description
301	A-8263-080-A	s HEAD DRUM ASSY DBH-45A-R (J, UC)
302	A-6050-648-A	s BRUSH ASSY, RP (N)
303	A-8263-621-A	s SLIP RING ASSY (RP)
304	A-8263-082-A	s HEAD DRUM ASSY DBH-46A-R (EK)
305	A-8263-081-A	s UPPER DRUM ASSY DBR-45-R (J, UC)
306	A-8263-083-A	s UPPER DRUM ASSY DBR-46-R (EK)
307	3-717-148-01	o COVER, BRUSH
308	3-184-005-01	o SPACER, FRANGE (0.01T)
309	3-184-005-11	o SPACER, FRANGE (0.03T)
310	3-184-005-21	o SPACER, FRANGE (0.05T)
311	3-184-526-02	o SUPPORT, BRUSH
312	3-729-012-01	s SCREW (M2x5)
313	3-689-039-11	s SCREW (M2x6), SMALL
314	3-703-502-41	s SCREW (M1.4x3.5), WASHERHEAD

DRUM



# LOADING GEAR/PINCH ARM

## LOADING GEAR/PINCH ARM





## LOADING GEAR/PINCH ARM

### LOADING GEAR/PINCH ARM

No.	Part No.	SP Description
401	A-6747-262-K	s ARM ASSY, PINCH
402	A-6750-231-B	s GEAR BLOCK ASSY
403	A-8278-012-D	s MOTOR ASSY, LOADING
404	X-3678-048-1	o BRACKET ASSY, MO (B)
405	X-3722-304-1	o BASE ASSY
406	X-3722-306-4	s GEAR ASSY
407	X-3722-307-1	s PULLEY ASSY, MIDWAY
408	X-3722-319-1	s ROLLER ASSY
409	X-3722-363-4	s PINCH ASSY, SUB MO (B)
410	1-698-346-11	s MOTOR, DC (LOADING)
411	1-948-710-11	s HARNESS (TAPE TOP)
412	2-279-715-01	o RIVET, NYLON
413	3-321-813-01	s WASHER, COTTER POLYETHYLENE
414	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
415	3-668-508-00	s SPRING, TENSION
416	3-679-067-04	o BRACKET, SENSER (TT)
417	3-701-438-01	s WASHER
418	3-722-382-01	s ROLLER, PINCH ARM
419	3-722-390-01	o HOOK, SPRING, SHUTTER
420	3-184-594-01	s FLANGE (P), UPPER
421	3-722-401-02	s FLANGE (A), LOWER
422	3-722-460-01	o SHUTTER, CASSETTE DETECTION
423	3-723-064-01	s GEAR (M1)
424	3-723-065-01	s GEAR (M2)
425	3-729-011-01	s SPRING, COMPRESSION
426	3-729-013-21	s SCREW(M1.4x2.5), WASHERHEAD(+P)
427	3-729-046-03	o GUARD, PINCH TAPE
428	3-729-081-01	o RETAINER (A), SCREW
429	3-729-082-01	o RETAINER (B), SCREW
430	3-729-084-21	s BOLT (M2x5), HEXAGON HOLE
431	3-729-098-01	s WASHER, SPRING
432	3-732-988-01	s SCREW (M2x2.5)

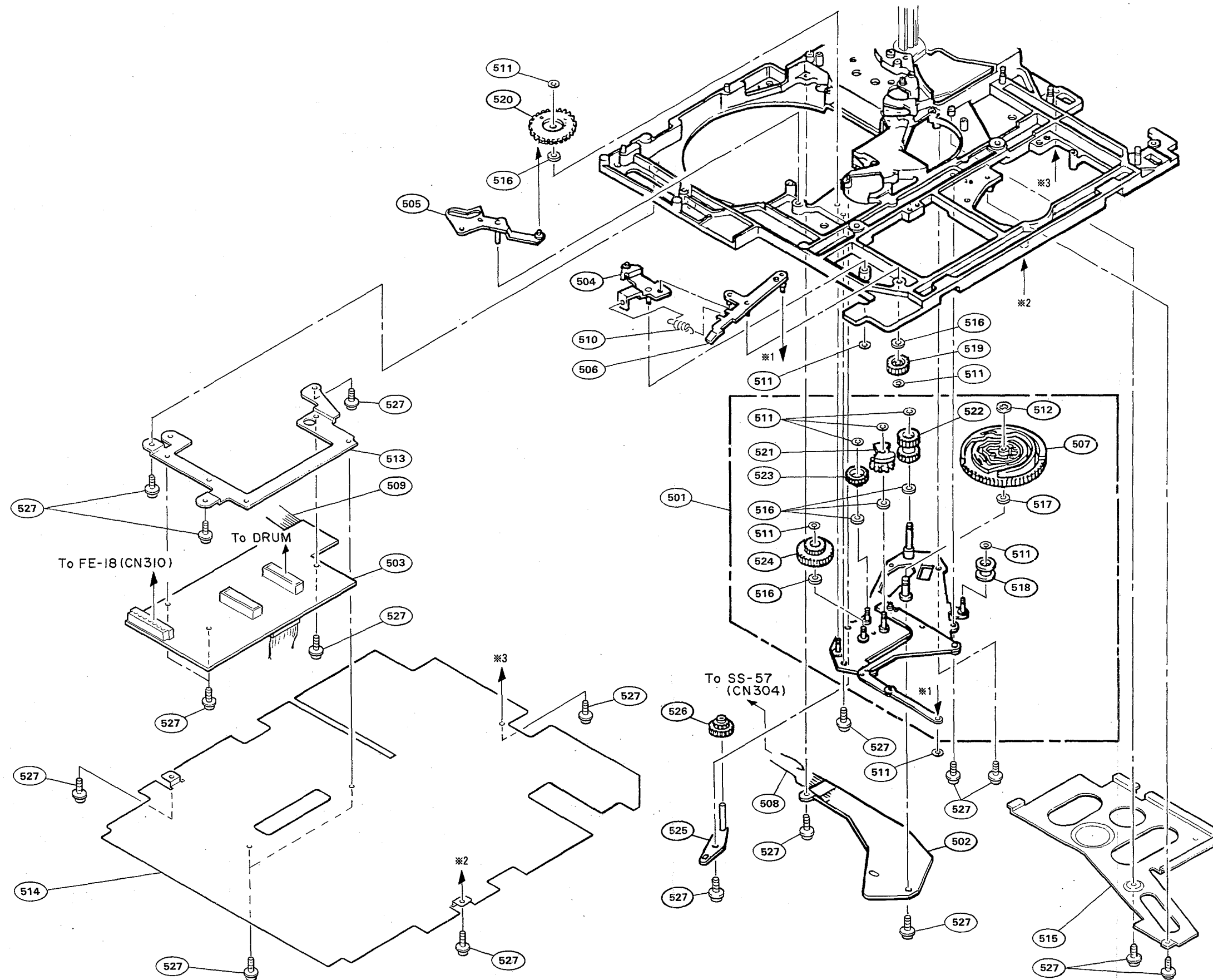
## CAM GEAR

### CAM GEAR

No.	Part No.	SP Description
501	A-6750-233-B	s GEAR SUB ASSY, CAM
502	A-8275-594-A	o MOUNTED CIRCUIT BOARD, SR-55
503	A-8275-595-A	o MOUNTED CIRCUIT BOARD, DR-254
504	X-3722-308-1	o LEVER ASSY, RELEASE, ST
505	X-3722-316-1	o ARM ASSY, DRIVING
506	X-3722-357-1	o LINK ASSY, EJECT
507	X-3722-369-2	s CAM ASSY, FUNCTION
508	1-765-130-11	s CABLE, FLAT 8P
509	1-765-133-11	s CABLE, FLAT 16P
510	3-531-794-00	s SPRING, TENSION
511	3-559-408-11	s WASHER, POLYETHYLENE, DIA.1.2
512	3-669-595-00	s WASHER (2), STOPPER
513	3-679-541-02	o BRACKET, DR
514	3-679-542-02	o PLATE, SHIELD
515	3-679-575-01	o COVER, CAPSTAN
516	3-701-436-11	s WASHER, 1.6 POLYETHYLENE
517	3-701-438-21	s WASHER
518	3-722-369-01	s PULLEY, IDLER
519	3-722-430-01	o GEAR, JOINT
520	3-723-010-01	o GEAR, REEL SLIDER DRIVING
521	3-723-080-02	o GEAR, CLUB
522	3-723-081-01	o GEAR (T)
523	3-723-082-02	o GEAR, T DRIVING MIDWAY
524	3-723-083-02	o GEAR, ST DRIVING
525	3-725-206-01	o BRACKET, T GEAR
526	3-725-207-02	o GEAR, T DRIVING
527	3-729-013-21	s SCREW(M1.4x2.5), WASHERHEAD(+P)

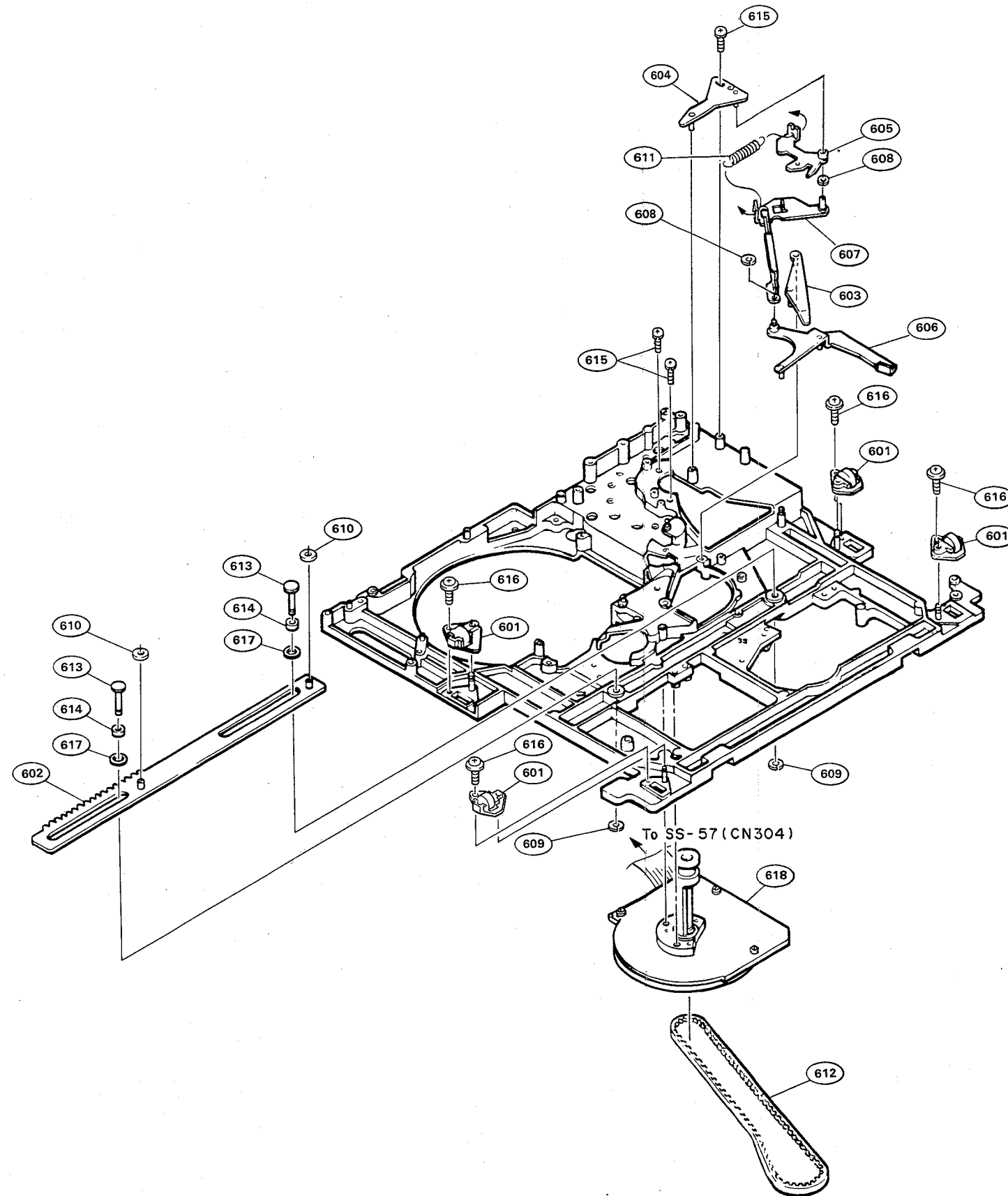
CAM GEAR CAM GEAR

CAM GEAR



PVV-3 (J)  
PVV-3 (UC)  
PVV-3P (EK)

PINCH PRESS MECHANISM



## PINCH PRESS MECHANISM

### PINCH PRESS MECHANISM

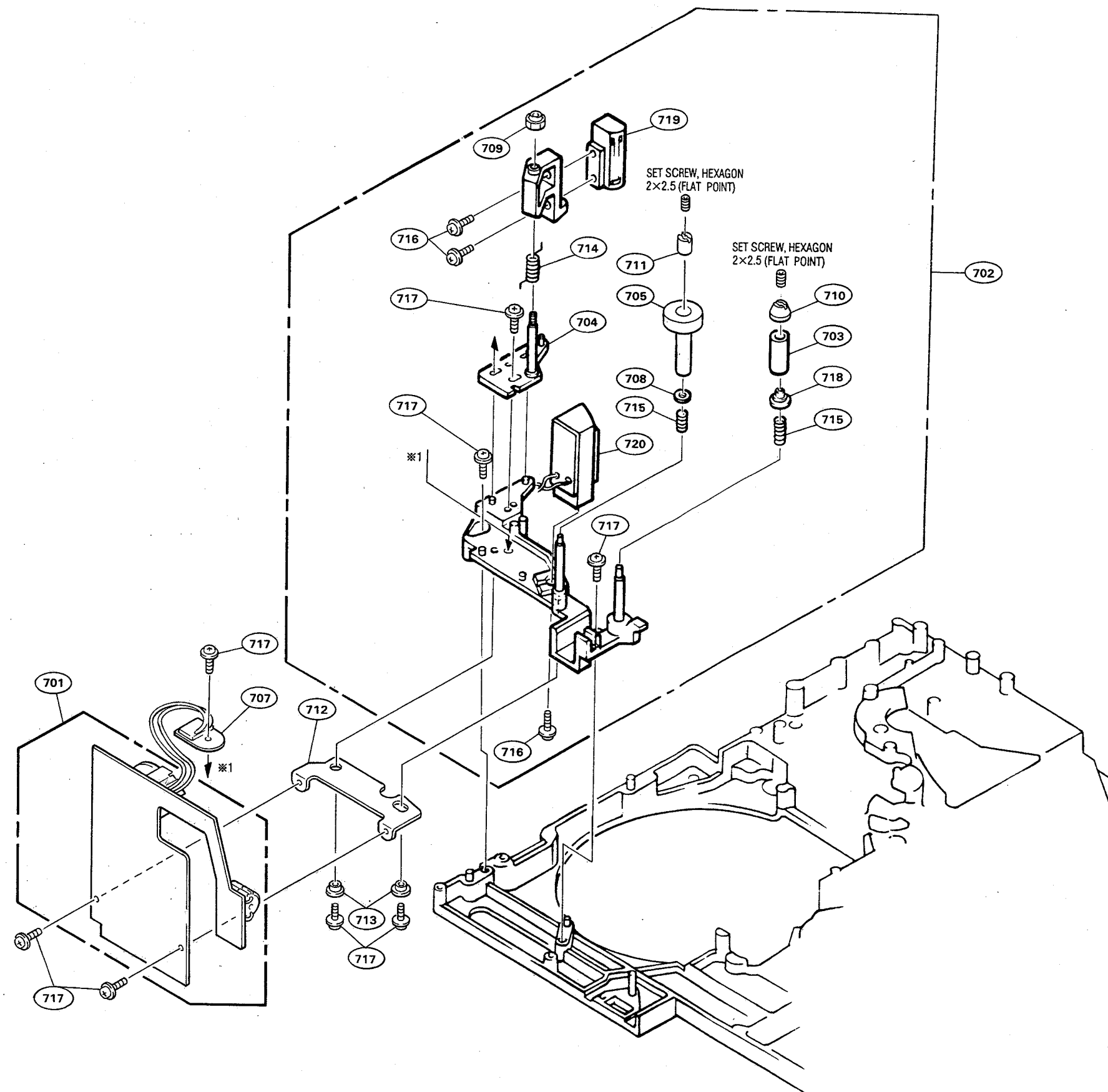
No.	Part No.	SP Description
601	X-3722-301-1	s ROLLER ASSY, REEL CHASSIS
602	X-3722-309-2	o SLIDER ASSY, REEL
603	X-3722-310-3	o LEVER ASSY, BRAKE
604	X-3722-311-1	o SUPPORT ASSY, P LEVER
605	X-3722-312-1	o LEVER (C) ASSY, PRESS
606	X-3722-345-1	o JOINT ASSY, PINCH
607	X-3722-346-2	o LEVER ASSY, PRESS
608	3-559-408-00	s POLY-WASHER, 1.2 DIA
609	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
610	3-701-439-21	s WASHER
611	3-701-788-XX	s SPRING, TENSION (15T)
612	3-722-452-01	s BELT, TIMING
613	3-723-008-01	o RETAINER, ROLLER
614	3-723-009-01	s ROLLER, SLIDER PLATE
615	3-729-012-01	s SCREW (M2x5)
616	3-729-013-21	s SCREW(M1.4x2.5), WASHERHEAD(+P)
617	3-729-025-01	s WASHER
618	1-698-345-11	s MOTOR, DC (CAPSTAN)

## CTL HEAD BASE

### CTL HEAD BASE

No.	Part No.	SP Description
701	A-8275-593-A	o MOUNTED CIRCUIT BOARD, FE-18
702	A-6736-080-F	o HEAD SUB ASSY, CTL
703	X-3722-322-1	s ROLLER ASSY, POM
704	X-3722-341-1	o PLATE ASSY, HEAD, CTL
705	X-3722-342-4	s IR-1 ASSY
707	1-810-462-11	s SENSER, DEW CONDENSATION
708	3-557-565-00	s WASHER, 1.4 DIA, SMALL
709	3-698-829-01	s NUT (M2)
710	3-722-400-02	s FLANGE (C), UPPER
711	3-722-402-02	o NUT, IR
712	3-679-090-01	o BRACKET, FE
713	3-722-420-01	s SPACER, FE-4 HOLDER
714	3-723-092-02	s SPRING
715	3-729-011-01	s SPRING, COMPRESSION
716	3-729-012-01	s SCREW (M2x5)
717	3-729-013-21	s SCREW (M1.4x2.5), WASHERHEAD(+P)
718	3-742-003-01	s FLANGE (S), LOWER
719	8-825-560-41	s HEAD, CTL RS-253-21
720	8-825-772-62	s HEAD, ERASE EF291-21A

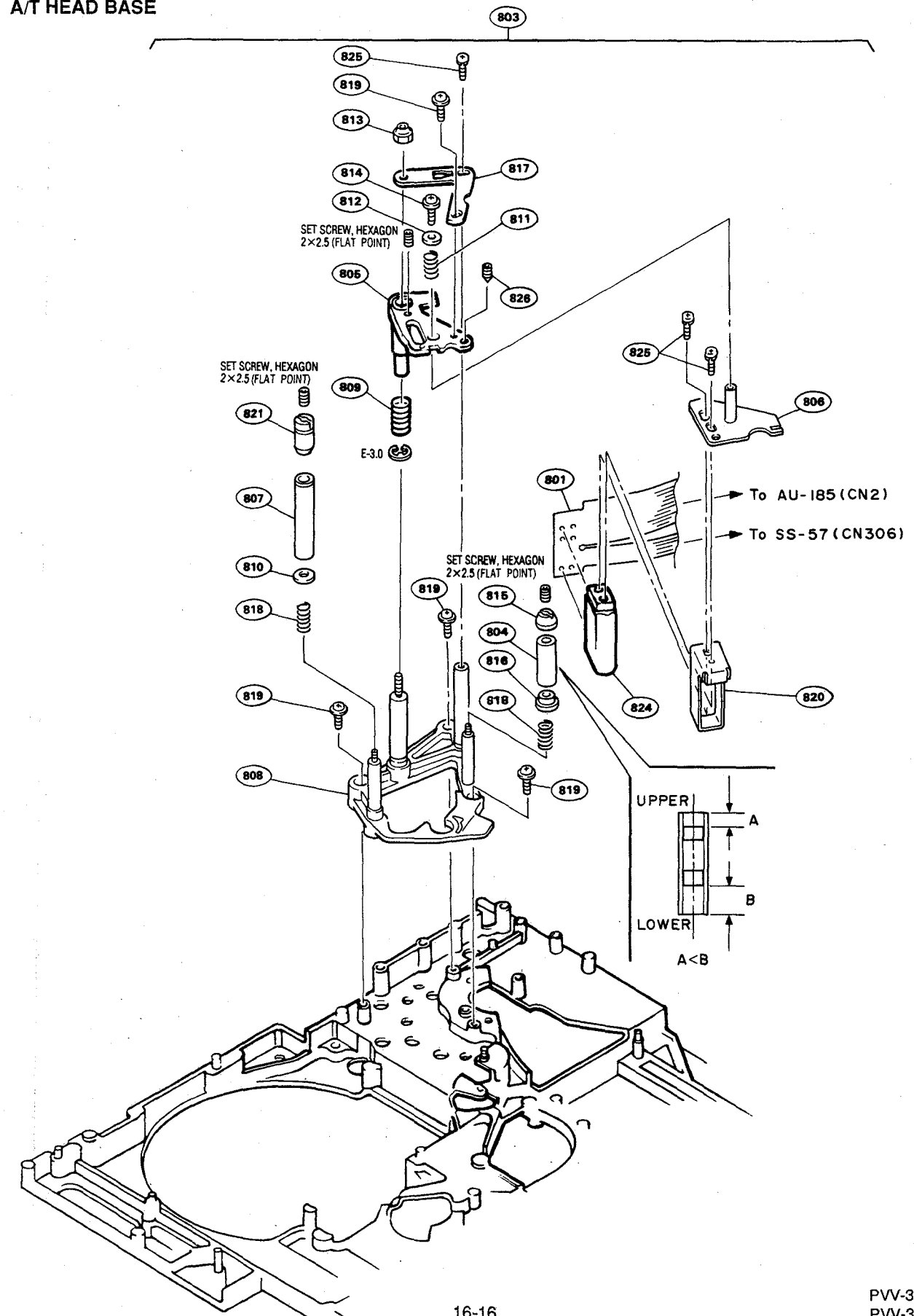
## CTL HEAD BASE



## A/T HEAD BASE

### A/T HEAD BASE

**A/T HEAD BASE**





## A/T HEAD BASE

No.	Part No.	SP Description
801	1-651-202-11	o WIRE FLEXIBLE CARD, FL-160
803	A-8310-259-A	o HEAD ASSY, A/T
804	X-3722-319-1	s ROLLER ASSY
805	X-3678-054-1	o A/T ASSY, UPPER
806	X-3722-339-5	o PLATE (LOWER) ASSY, A/T
807	X-3678-049-2	s IR-11 ASSY
808	X-3678-055-2	o BASE ASSY, A/T
809	3-885-103-00	s SPRING, COMPRESSION
810	3-557-565-00	s WASHER, 1.4 DAI, SMALL
811	3-669-316-00	s SPRING, COMPRESSION
812	3-695-567-01	s WASHER, M SLIDER
813	3-698-829-01	s NUT (M2)
814	3-703-502-31	s SCREW
815	3-722-400-02	s FLANGE (C), UPPER
816	3-722-401-02	s FLANGE (A), LOWER
817	3-679-097-01	o DAMPER, A/T
818	3-729-011-01	s SPRING, COMPRESSION
819	3-729-013-21	s SCREW (M1.4x2.5), WASHERHEAD(+P)
820	3-679-076-01	o CASE, SHIELD, A/T
821	3-722-402-02	o NUT, IR
824	8-825-779-51	s HEAD, AU PS-244-2103K
825	3-729-012-21	s SCREW (M2X4)
826	3-686-560-01	o SCREW (2X5), HOLE, HEXAGON

## CASSETTE-UP COMPARTMENT

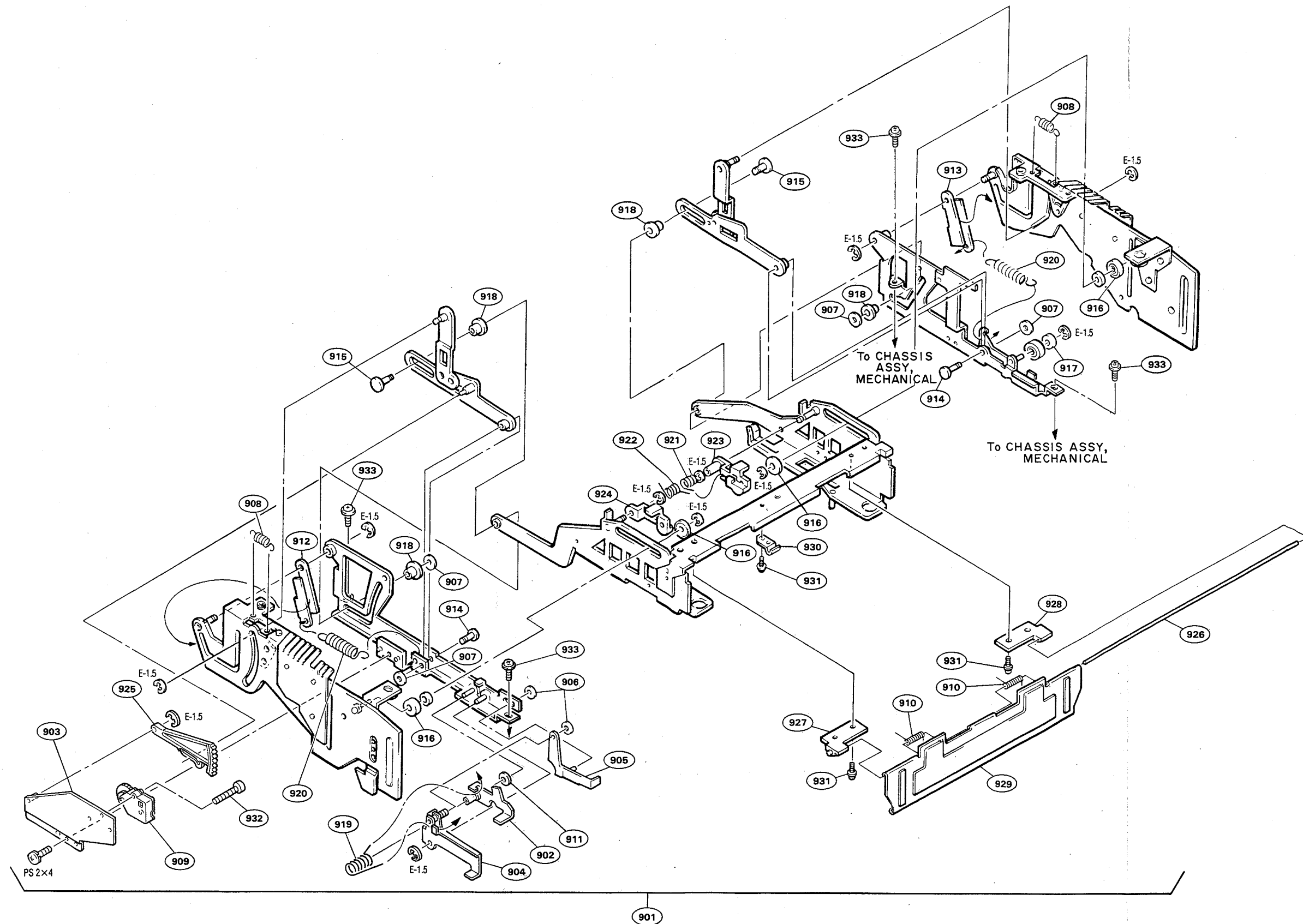
### CASSETTE-UP COMPARTMENT

No.	Part No.	SP Description
901	A-8310-258-A	s CASSETTE COMPARTMENT ASSY, (RP)
902	X-3722-358-3	s STOPPER ASSY
903	X-3678-044-1	o BRACKET ASSY, DAMPER
904	X-3678-046-2	o PLATE ASSY, LOCK (B)
905	X-3722-412-1	o LEVER ASSY, RELEASE
906	3-315-384-11	s WASHER, STOPPER
907	3-321-813-01	s WASHER, COTTER POLYETHYLENE
908	3-674-402-00	s SPRING, TENSION
909	4-614-428-01	s DAMPER
910	3-695-515-02	o SPRING
911	3-701-436-21	s WASHER, POLYETHYLENE
912	3-723-016-01	o LEVER (RIGHT), LID OPEN
913	3-723-017-01	o LEVER (LEFT), LID OPEN
914	3-723-042-01	o SHAFT, LINK
915	3-723-043-01	o SHAFT, CASSETTE HOLDER
916	3-723-044-01	o RETAINER, BEARING
917	3-723-044-11	o RETAINER, BEARING
918	3-723-045-02	o ROLLER, HOLDER SLIDE
919	3-723-052-01	s SPRING (A), TORSION
920	3-723-053-01	o SPRING (A), TENSION
921	3-723-054-01	o SPRING (L), CASSETTE RETAINER
922	3-723-055-01	o SPRING (R), CASSETTE RETAINER
923	3-723-067-01	o RETAINER (LEFT), CASSETTE
924	3-723-068-01	o RETAINER (RIGHT), CASSETTE
925	3-678-597-01	o DRIVING GEAR, DAMPER
926	3-723-087-01	s SHAFT (A), BLIND PLATE
927	3-723-088-02	s GUIDE (RIGHT), CASSETTE
928	3-723-089-02	s GUIDE (LEFT), CASSETTE
929	3-723-090-03	s PLATE (A), BLIND
930	3-725-298-01	o PLATE, INDICATION, BLIND
931	3-729-013-21	s SCREW (M1.4x2.5), WASHERHEAD (P)
932	3-703-502-81	s SCREW (M1.4x6), WASHERHEAD (P)
933	3-729-012-01	s SCREW (PS2x5)

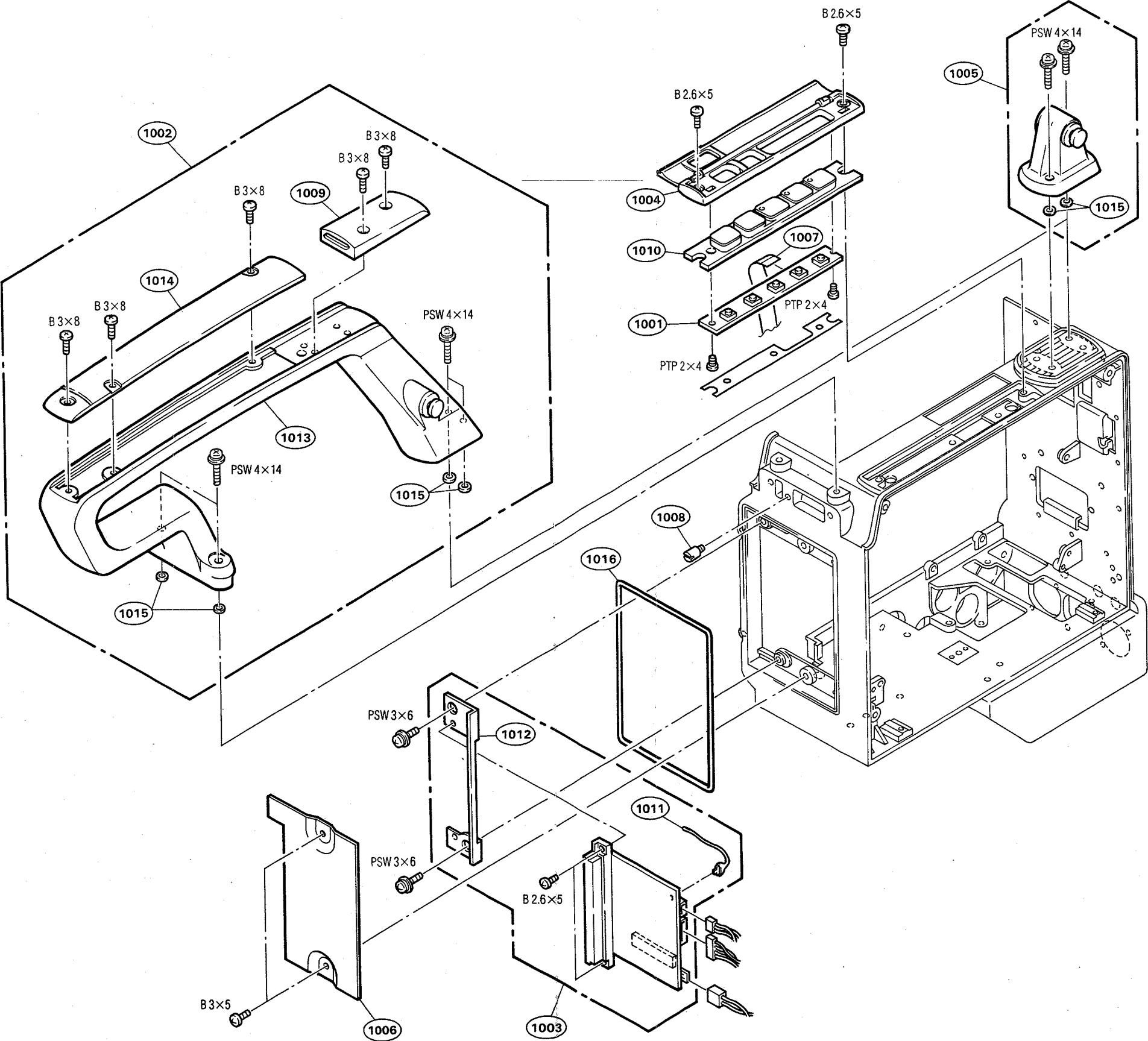
# CASSETTE-UP COMPARTMENT

# CASSETTE-UP COMPARTMENT

## CASSETTE-UP COMPARTMENT



TOP FRAME/FRONT FRAME



## TOP FRAME/FRONT FRAME

### TOP FRAME/FRONT FRAME

No.	Part No.	SP Description
1001	A-8275-589-A	o MOUNTED CIRCUIT BOARD, KY-285
1002	A-8278-122-B	o HANDLE ASSY
1003	A-8310-467-A	o MOUNTED CIRCUIT BOARD, CN-983
1004	X-3678-057-1	o SUB ASSY, KEY PANEL
1005	X-3678-244-2	s SUPPORT ASSY, BELT
1006	X-3678-260-1	o PANEL, FRONT ASSY
1007	1-765-131-11	s CABLE, FLAT 10P
1008	3-171-656-01	o PIN, INSERTING PROTECTION
1009	3-679-036-01	o LID, HANDLE (2)
1010	3-679-501-01	o COVER, RUBBER KEY BOARD
1011	3-683-631-01	o CLAMP
1012	3-685-558-01	o BRACKET, CN
1013	3-685-561-02	o HANDLE
1014	3-685-563-01	o LID, HANDLE
1015	3-701-439-11	o WASHER
1016	3-729-701-21	s RUBBER (CARBON), CONDUCTIVE

## BOTTOM FRAME/REAR FRAME

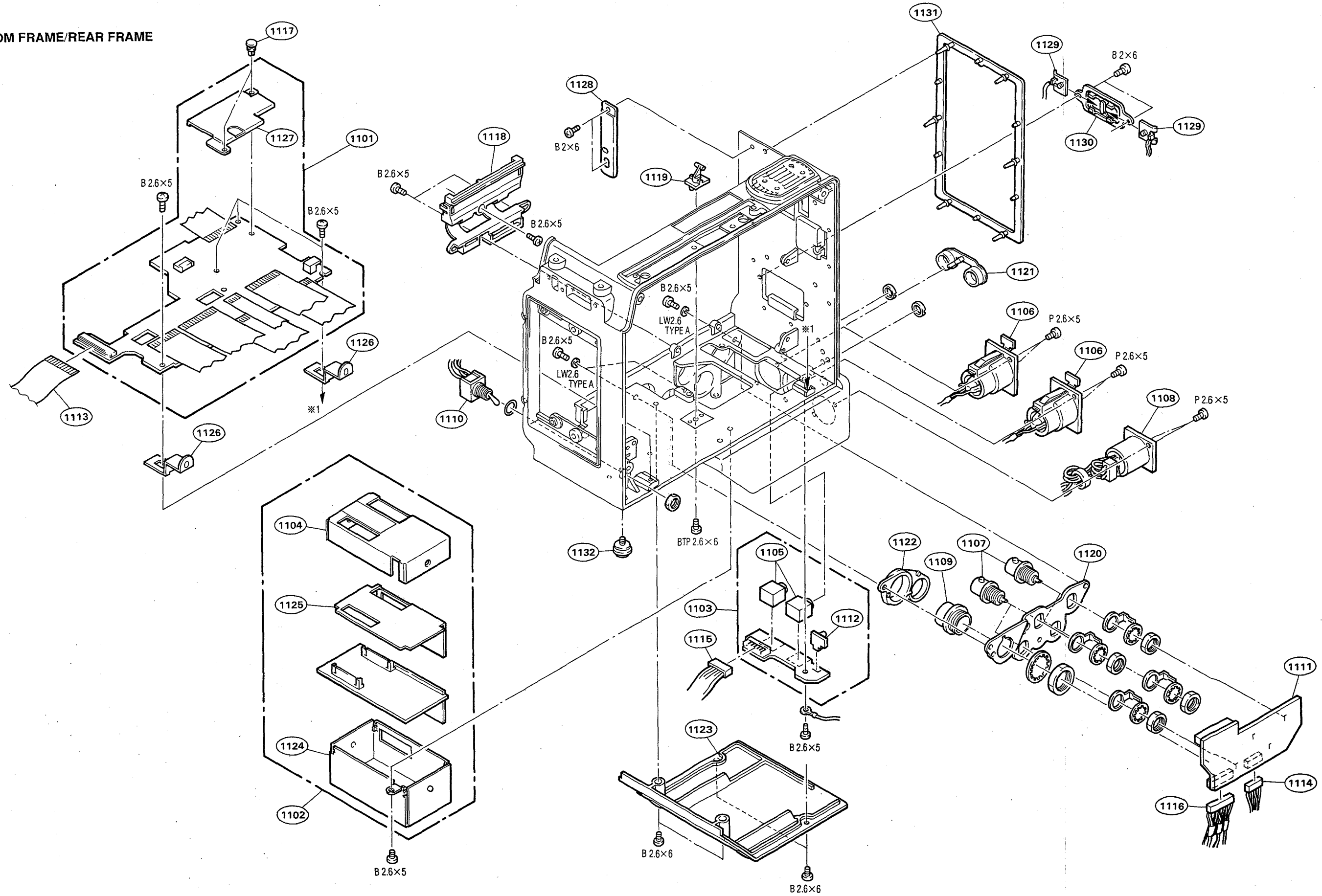
### BOTTOM FRAME/REAR FRAME

No.	Part No.	SP Description
1101	A-8310-451-A	o MOUNTED CIRCUIT BOARD, MB-552
1102	A-8310-452-A	o MOUNTED CIRCUIT BOARD, DC-67
1103	A-8310-454-A	o MOUNTED CIRCUIT BOARD, CN-1123
1104	X-3678-261-1	o SHEET, INSULATING(U) ASSY
1105	1-507-980-41	o JACK, MINI
1106	1-509-184-51	s CONNECTOR, XLR 3P, FEMALE
1107	1-562-261-41	o CONNECTOR, COAXIAL (BNC), FEMALE
1108	1-564-603-11	s CONNECTOR, XLR (WITH DC SW) 4P, MALE
1109	1-569-422-11	o CONNECTOR, CIRCULAR 20P, FEMALE
1110	1-571-367-11	s SWITCH, TOGGLE
1111	1-650-138-12	o PRINTED CIRCUIT BOARD, CN-935
1112	1-651-988-11	o PRINTED CIRCUIT BOARD, LED-214
1113	1-769-447-11	s CABLE, FLAT 25P
1114	1-953-152-11	o HARNESS (SS-CN)
1115	1-953-154-12	o HARNESS (TC-SW)
1116	1-953-163-11	o HARNESS (VO-CN)
1117	2-279-715-11	s RIVET, NYLON
1118	3-679-027-02	o HOLDER, FLEXIBLE HARNESS
1119	3-679-061-01	o PIN, STANDARD
1120	3-679-064-01	o BRACKET, CONNECTOR
1121	3-679-068-02	o COVER, E R
1122	3-679-505-01	o SPACER
1123	3-685-548-01	o PANEL, BOTTOM
1124	3-685-555-01	o CASE, SHIELD(B)
1125	3-685-557-01	o SHEET, INSULATING
1126	3-685-564-02	o STRAP
1127	3-685-687-01	o COVER, MB-CN
1128	3-686-145-01	o GUIDE, CASSETTE COMPARTMENT
1129	3-717-996-04	s TERMINAL BOARD
1130	3-718-028-01	o HOLDER, TERMINAL
1131	3-718-032-01	s SHEET, RUBBER, DROP PROTECTION
1132	3-744-355-01	o SHAFT, GUIDE

BOTTOM FRAME/REAR FRAME

BOTTOM FRAME/REAR FRAME

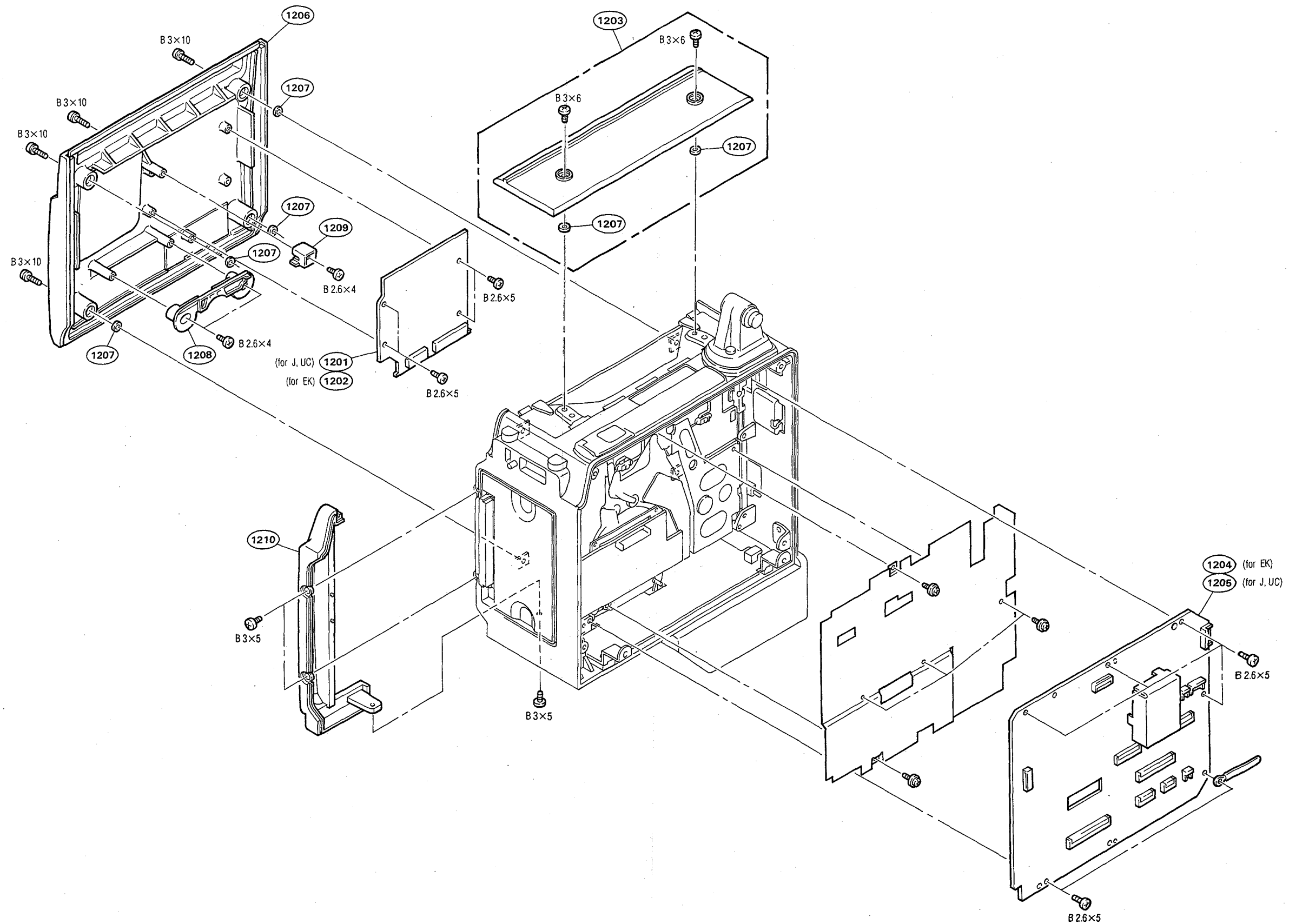
BOTTOM FRAME/REAR FRAME



LEFT SIDE PLATE

LEFT SIDE PLATE

LEFT SIDE PLATE





## LEFT SIDE PLATE

### LEFT SIDE PLATE

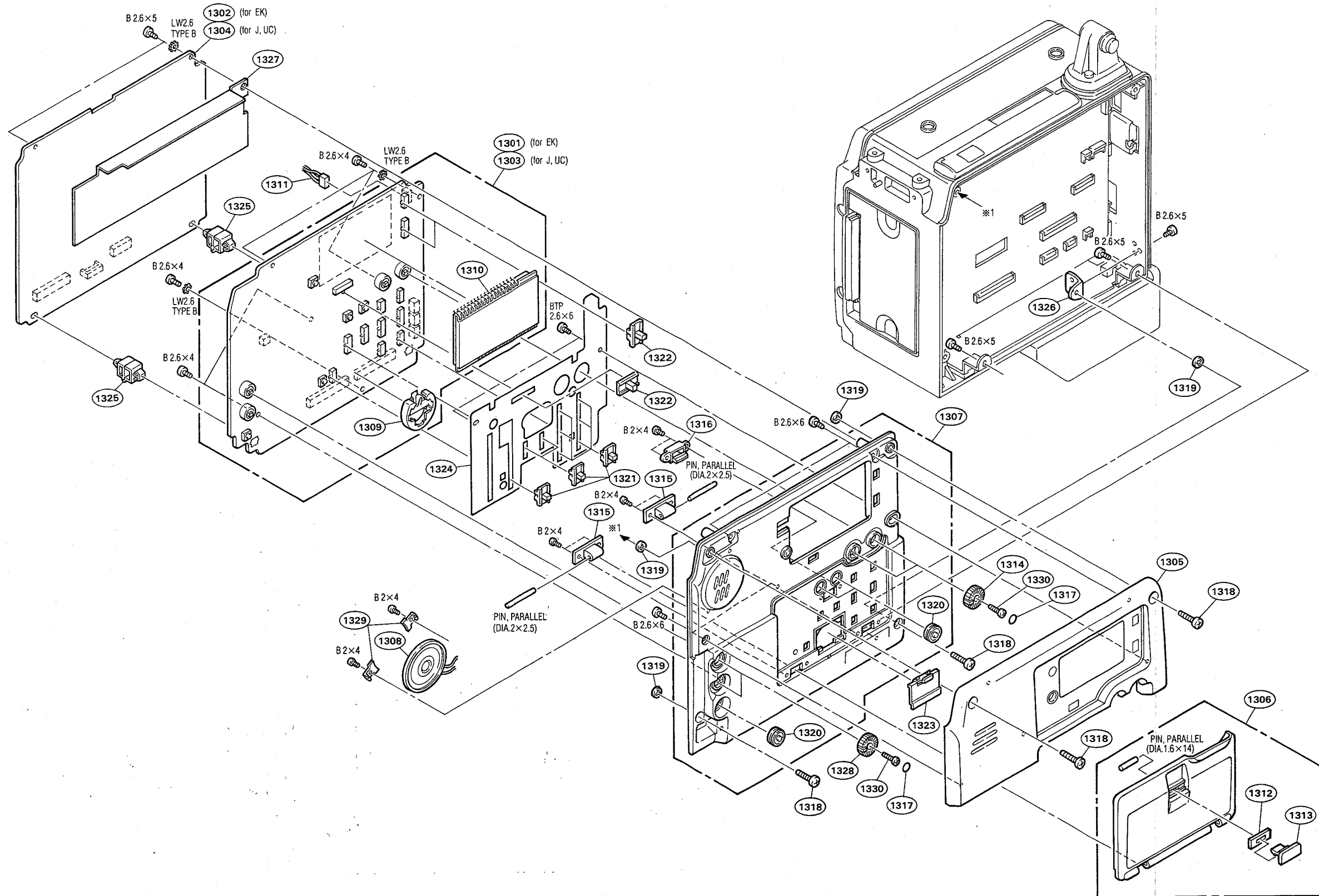
No.	Part No.	SP Description
1201	A-8275-596-A	o MOUNTED CIRCUIT BOARD, AU-185 (J, UC)
1202	A-8275-695-A	o MOUNTED CIRCUIT BOARD, AU-185P (EK)
1203	A-8278-013-A	o PANEL ASSY, TOP
1204	A-8310-455-A	o MOUNTED CIRCUIT BOARD, SS-57C (EK)
1205	A-8310-707-A	o MOUNDED CIRCUIT BOARD, SS-57B (J, UC)
1206	X-3678-045-2	o PANEL, CASSETTE SUB ASSY
1207	3-669-596-01	s WASHER (2.3), STOPPER
1208	3-679-059-01	o SUPPORT, TAPE
1209	3-725-286-01	o STOPPER, CASSETTE
1210	3-685-556-01	o L, COVER

## RIGHT SIDE PLATE

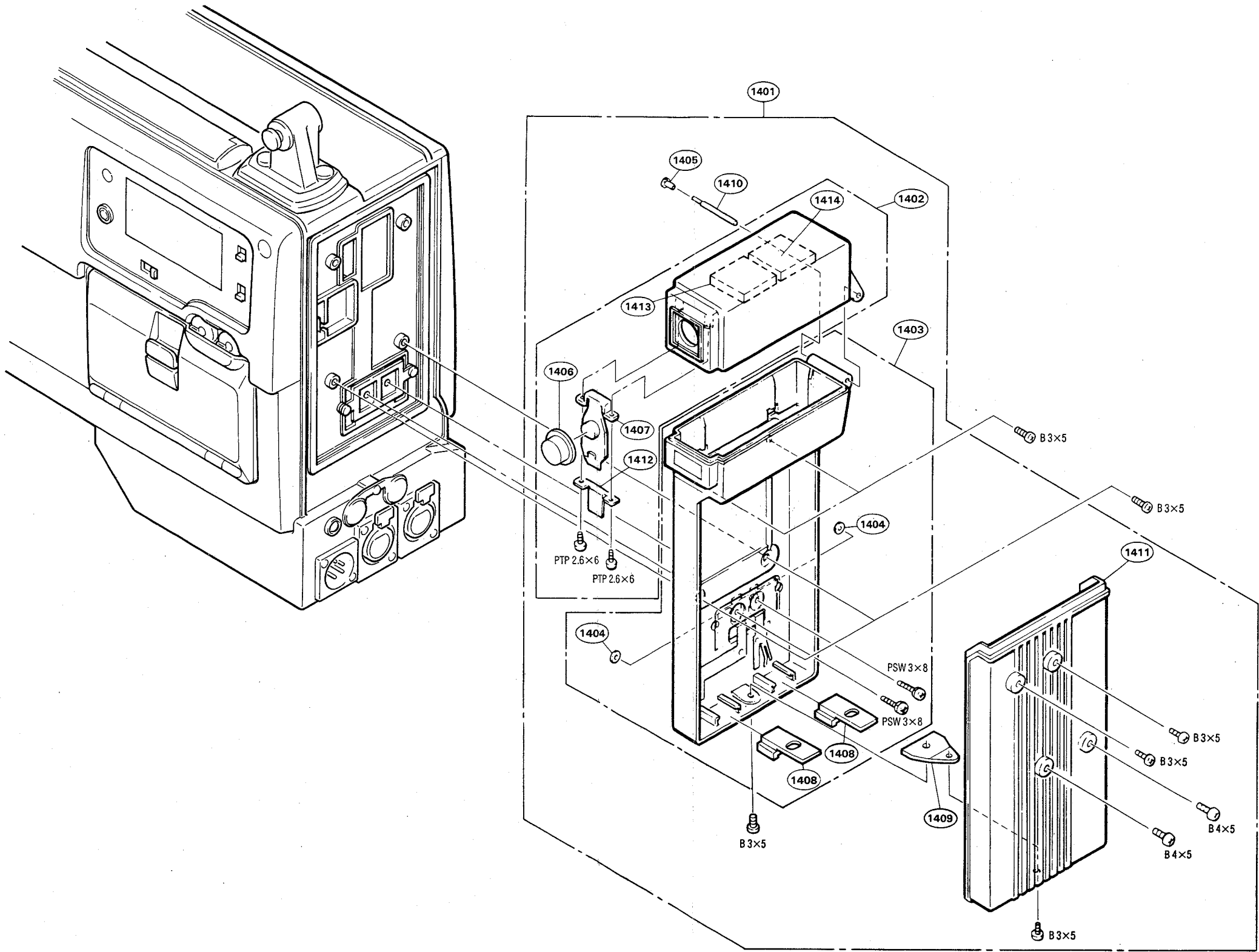
### RIGHT SIDE PLATE

No.	Part No.	SP Description
1301	A-8310-456-A	o MOUNTED CIRCUIT BOARD, TC-86C (EK)
1302	A-8310-457-A	o MOUNTED CIRCUIT BOARD, VO-46C (EK)
1303	A-8310-708-A	o MOUNTED CIRCUIT BOARD, TC-86B (J, UC)
1304	A-8310-709-A	o MOUNTED CIRCUIT BOARD, VO-46B (J, UC)
1305	X-3678-240-1	o PAD ASSY, R
1306	X-3678-241-1	o DOOR ASSY, TC
1307	X-3678-243-1	o PANEL ASSY, R SUB
1308	1-503-854-11	s SPEAKER
1309	1-550-104-32	s HOLDER, BATTERY
1310	1-810-463-11	s DISPLAY, LCD
1311	1-953-161-12	o HARNESS, SUB (ANT ON)
1312	3-171-671-03	s RUBBER, LEVER, TC
1313	3-171-672-01	s LEVER, TC
1314	3-171-996-03	s KNOB (R), VR
1315	3-175-616-01	s SUPPORT, HINGE
1316	3-175-621-01	s PLATE, LOCK
1317	3-178-098-11	s SHEET (VR), INSULATING
1318	3-178-213-31	s SCREW (M3X12), +B
1319	3-669-596-01	s WASHER (2.3), STOPPER
1320	3-676-244-00	s COVER, SWITCH
1321	3-679-077-01	s KNOB(S), SW
1322	3-679-078-01	s KNOB(L), SW
1323	3-679-081-01	o COVER, BATTERY
1324	3-679-088-02	s KNOB SHEET, SW
1325	3-682-080-00	o HINGE (A), PCB
1326	3-685-560-01	o BRAKET, R PANEL
1327	3-685-569-01	o INSULATOR, TC
1328	3-685-683-01	s KNOB, VR
1329	3-724-726-01	o HOLDER, SPEAKER
1330	7-627-552-37	s SCREW, PRECISION (P1.7x3)

RIGHT SIDE PLATE



BATTERY CASE



## BATTERY CASE

### BATTERY CASE

No.	Part No.	SP Description
1401	A-6703-651-C	s CASE ASSY, BATTERY
1402	X-3717-701-3	o COVER ASSY, TOP, BATTERY
1403	X-3717-742-5	o CASE SUB ASSY, BATTERY
1404	3-669-596-01	s WASHER (2.3), STOPPER
1405	3-703-075-00	s CAP 2, SHAFT
1406	3-717-702-01	s PUSH BUTTON
1407	3-717-703-03	s HOOK
1408	3-717-707-02	o CUSHION (2)
1409	3-717-708-01	o RETAINER, CASE
1410	3-717-709-01	o SHAFT, LID
1411	3-718-040-01	o COVER (1), BATTERY CASE
1412	3-718-172-01	o RETAINER, HOOK
1413	3-729-720-01	o CUSHION (LEFT)
1414	3-729-721-01	o CUSHION (RIGHT)

### 16-3. ELECTRICAL PARTS LIST

#### AU-185P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-695-A	o MOUNTED CIRCUIT BOARD, AU-185P
C1	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C2	1-135-091-91	s TANTALUM, CHIP 1uF 20% 16V
C5	1-128-029-11	s ELECT, CHIP 4.7uF 16V
C7	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C8	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C12	1-124-779-00	s ELECT 10uF 20% 16V
C20	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C21	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C22	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C30	1-163-139-00	s CERAMIC, CHIP 820pF 5% 50V
C31	1-163-139-00	s CERAMIC, CHIP 820pF 5% 50V
C32	1-163-263-11	s CERAMIC, CHIP 330pF 5% 50V
C34	1-136-439-11	s FILM 330pF 5% 630V
C58	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C59	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C60	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C107	1-135-091-91	s TANTALUM, CHIP 1uF 20% 16V
C111	1-163-227-11	s CERAMIC, CHIP 10pF 5% 50V
C112	1-164-182-11	s CERAMIC, CHIP 3300pF 10% 100V
C113	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C114	1-163-143-00	s CERAMIC, CHIP 0.0012uF 5% 50V
C130	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C134	1-128-029-11	s ELECT, CHIP 4.7uF 16V
C135	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C136	1-163-251-11	s CERAMIC, CHIP 100pF 5% 50V
C138	1-136-439-11	s FILM 330pF 5% 630V
C140	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C142	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C143	1-162-587-11	s CERAMIC, CHIP 0.039uF 10% 25V
C207	1-135-091-91	s TANTALUM, CHIP 1uF 20% 16V
C211	1-163-227-11	s CERAMIC, CHIP 10pF 5% 50V
C212	1-164-182-11	s CERAMIC, CHIP 3300pF 10% 100V
C213	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C214	1-163-143-00	s CERAMIC, CHIP 0.0012uF 5% 50V
C230	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C234	1-128-029-11	s ELECT, CHIP 4.7uF 16V
C235	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C236	1-163-251-11	s CERAMIC, CHIP 100pF 5% 50V
C238	1-136-439-11	s FILM 330pF 5% 630V
C240	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C242	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C243	1-162-587-11	s CERAMIC, CHIP 0.039uF 10% 25V
C301	1-163-263-11	s CERAMIC, CHIP 330pF 5% 50V
C302	1-163-121-00	s CERAMIC, CHIP 150pF 5% 50V
C304	1-128-017-21	s ELECT, CHIP 47uF 4V
C305	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C306	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C307	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C308	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C309	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C401	1-163-263-11	s CERAMIC, CHIP 330pF 5% 50V
C402	1-163-121-00	s CERAMIC, CHIP 150pF 5% 50V
C404	1-128-017-21	s ELECT, CHIP 47uF 4V
C405	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C406	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C407	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C408	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V

#### (AU-185P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C409	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C909	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C910	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C913-922	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
CN1	1-568-801-11	s CONNECTOR, FPC (ZIF) 24P
CN2	1-566-526-11	s CONNECTOR, FPC (ZIF) 10P
CV131	1-141-393-11	s CAP, TRIMMER 100pF
CV231	1-141-393-11	s CAP, TRIMMER 100pF
D1	8-719-123-82	s DIODE 1SS303-T1
D301	8-719-820-41	s DIODE 1SS302
D401	8-719-820-41	s DIODE 1SS302
IC110	8-759-710-77	s IC NJM4560MD
IC111	8-759-710-77	s IC NJM4560MD
IC112	8-759-710-77	s IC NJM4560MD
IC113	8-759-710-77	s IC NJM4560MD
IC301	8-759-144-75	s IC UPC4572G2-E2
IC302	8-759-066-61	s IC TC4053BFS
IC303	8-759-710-77	s IC NJM4560MD
IC304	8-759-075-68	s IC TC4066BFS
L1	1-408-429-00	s INDUCTOR 470uH
L2	1-408-429-00	s INDUCTOR 470uH
LV111	1-410-854-21	s COIL, VAR 18mH
LV131	1-410-853-21	s COIL, VAR 4.5uH
LV211	1-410-854-21	s COIL, VAR 18mH
LV231	1-410-853-21	s COIL, VAR 4.5uH
Q1	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-105-08	s TRANSISTOR 2SA1330
Q4	8-729-105-08	s TRANSISTOR 2SA1330
Q6	8-729-907-00	s TRANSISTOR DTC114EU
Q7	8-729-905-18	s TRANSISTOR DTC144EU
Q14	8-729-231-74	s TRANSISTOR 2SC4116-GL
Q15	8-729-231-74	s TRANSISTOR 2SC4116-GL
Q16	8-729-905-12	s TRANSISTOR DTA144EU
Q17	8-729-905-18	s TRANSISTOR DTC144EU
Q54	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q55	8-729-905-12	s TRANSISTOR DTA144EU
Q56	8-729-117-32	s TRANSISTOR 2SC4177
Q59	8-729-920-XX	s TRANSISTOR DTA114EU
Q60	8-729-905-18	s TRANSISTOR DTC144EU
Q61	8-729-905-12	s TRANSISTOR DTA144EU
Q131	8-729-209-07	s TRANSISTOR 2SC4213-B
Q132	8-729-209-07	s TRANSISTOR 2SC4213-B
Q231	8-729-209-07	s TRANSISTOR 2SC4213-B
Q232	8-729-209-07	s TRANSISTOR 2SC4213-B
Q302	8-729-209-07	s TRANSISTOR 2SC4213-B
Q305	8-729-105-37	s TRANSISTOR 2SC3360
Q306	8-729-105-37	s TRANSISTOR 2SC3360
Q307	8-729-209-07	s TRANSISTOR 2SC4213-B
Q402	8-729-209-07	s TRANSISTOR 2SC4213-B
Q405	8-729-105-37	s TRANSISTOR 2SC3360
Q406	8-729-105-37	s TRANSISTOR 2SC3360
Q407	8-729-209-07	s TRANSISTOR 2SC4213-B
R5	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R6	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R7	1-216-089-00	s METAL, CHIP 47k 5% 1/10W

## (AU-185P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R8	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R9	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R10	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R11	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R26	1-216-081-00	s METAL, CHIP 22k 5% 1/10W
R30	1-216-083-00	s METAL, CHIP 27k 5% 1/10W
R31	1-216-083-00	s METAL, CHIP 27k 5% 1/10W
R60	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R63	1-216-295-91	s RES, CHIP 0
R66	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R68	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R69	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R70	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R71	1-216-295-91	s RES, CHIP 0
R72	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R73	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R77	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R78	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R79	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R111	1-216-683-11	s METAL, CHIP 22k 0.5% 1/10W
R112	1-216-697-91	s METAL, CHIP 82k 0.5% 1/10W
R113	1-208-784-11	s METAL, CHIP 1.2k 0.5% 1/10W
R114	1-218-753-11	s METAL, CHIP 110k 0.5% 1/10W
R115	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R116	1-218-760-11	s METAL, CHIP 220k 0.5% 1/10W
R117	1-216-115-00	s METAL, CHIP 560k 5% 1/10W
R118	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R119	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R132	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R138	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R139	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R141	1-216-077-00	s METAL, CHIP 15k 5% 1/10W
R142	1-216-661-11	s METAL, CHIP 2.7k 0.5% 1/10W
R145	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R146	1-218-760-11	s METAL, CHIP 220k 0.5% 1/10W
R147	1-216-699-11	s METAL, CHIP 100k 0.5% 1/10W
R148-155	1-216-675-11	s METAL, CHIP 10k 0.5% 1/10W
R211	1-216-683-11	s METAL, CHIP 22k 0.5% 1/10W
R212	1-216-697-91	s METAL, CHIP 82k 0.5% 1/10W
R213	1-208-784-11	s METAL, CHIP 1.2k 0.5% 1/10W
R214	1-218-753-11	s METAL, CHIP 110k 0.5% 1/10W
R215	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R216	1-218-760-11	s METAL, CHIP 220k 0.5% 1/10W
R217	1-216-115-00	s METAL, CHIP 560k 5% 1/10W
R218	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R219	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R232	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R238	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R239	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R241	1-216-077-00	s METAL, CHIP 15k 5% 1/10W
R242	1-216-661-11	s METAL, CHIP 2.7k 0.5% 1/10W
R245	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R246	1-218-760-11	s METAL, CHIP 220k 0.5% 1/10W
R247	1-216-699-11	s METAL, CHIP 100k 0.5% 1/10W
R248-255	1-216-675-11	s METAL, CHIP 10k 0.5% 1/10W
R301	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R302	1-216-067-00	s METAL, CHIP 5.6k 5% 1/10W
R303	1-216-025-00	s METAL, CHIP 100 5% 1/10W

## (AU-185P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R304	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R305	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R306	1-216-659-11	s METAL, CHIP 2.2k 0.5% 1/10W
R307	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R308	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R309	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R310	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R311	1-216-656-11	s METAL, CHIP 1.6k 0.5% 1/10W
R312	1-216-679-11	s METAL, CHIP 15k 0.5% 1/10W
R313	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R319	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R320	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R321	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R322	1-216-682-11	s METAL, CHIP 20k 0.5% 1/10W
R401	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R402	1-216-067-00	s METAL, CHIP 5.6k 5% 1/10W
R403	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R404	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R405	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R406	1-216-659-11	s METAL, CHIP 2.2k 0.5% 1/10W
R407	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R408	1-208-774-11	s METAL, CHIP 470 0.5% 1/10W
R409	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R410	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R411	1-216-656-11	s METAL, CHIP 1.6k 0.5% 1/10W
R412	1-216-679-11	s METAL, CHIP 15k 0.5% 1/10W
R413	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R419	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R420	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R421	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R422	1-216-682-11	s METAL, CHIP 20k 0.5% 1/10W
RV111	1-238-090-11	s RES, ADJ METAL 10k
RV112	1-238-090-11	s RES, ADJ METAL 10k
RV113	1-238-090-11	s RES, ADJ METAL 10k
RV211	1-238-090-11	s RES, ADJ METAL 10k
RV212	1-238-090-11	s RES, ADJ METAL 10k
RV302	1-238-089-11	s RES, ADJ METAL 4.7k
RV303	1-238-090-11	s RES, ADJ METAL 10k
RV402	1-238-089-11	s RES, ADJ METAL 4.7k
RV403	1-238-090-11	s RES, ADJ METAL 10k
T1	1-459-865-11	s COIL, VAR 3.4mH

# CN-935 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-650-138-12	o PRINTED CIRCUIT BOARD, CN-935
1pc	3-679-064-01	o BRACKET, CONNECTOR
CN1	1-690-107-11	o CONNECTOR, BB 12P, FEMALE
CN2	1-506-486-11	s CONNECTOR 7P, MALE
CN3	1-506-484-11	s CONNECTOR 5P, MALE
CN4	1-562-261-41	s CONNECTOR, COAXIAL (BNC), FEMALE
CN5	1-562-261-41	s CONNECTOR, COAXIAL (BNC), FEMALE
CN6	1-562-261-41	s CONNECTOR, COAXIAL (BNC), FEMALE
CN7	1-562-261-41	s CONNECTOR, COAXIAL (BNC), FEMALE
CN8	1-569-422-11	s CONNECTOR, CIRCULAR 20P, FEMALE

# CN-983 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8310-467-A	o MOUNTED CIRCUIT BOARD, CN-983
1pc	3-685-558-01	o BRACKET, CN
1pc	7-621-775-20	s SCREW +B 2.6x5
2pcs	3-683-631-01	o CLAMP
C2	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C3	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C4	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
CN1	1-566-581-11	s CONNECTOR, DIN 50P, FEMALE
CN2	1-750-992-21	s CONNECTOR, FPC 25P
CN3	1-691-551-11	s CONNECTOR 8P, MALE
CN4	1-580-056-21	o CONNECTOR 3P, MALE
CN5	1-560-364-00	o CONNECTOR, ILG 2P, MALE
CN6	1-560-364-00	o CONNECTOR, ILG 2P, MALE
R1	1-216-651-11	s METAL, CHIP 1k 0.5% 1/10W
R2	1-216-651-11	s METAL, CHIP 1k 0.5% 1/10W
R3	1-216-651-11	s METAL, CHIP 1k 0.5% 1/10W

# CN-1123 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8310-454-A	o MOUNTED CIRCUIT BOARD, CN-1123
This board includes the LED-214 board.		
C1	1-162-600-11	s CERAMIC 0.0047uF 10% 16V
C2	1-162-600-11	s CERAMIC 0.0047uF 10% 16V
C4	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C5	1-161-051-00	s CERAMIC 0.01uF 10% 50V
CN1	1-565-880-11	s CONNECTOR 8P, MALE
CN2	1-507-980-41	s JACK, MINI
CN3	1-507-980-41	s JACK, MINI
R1	1-215-377-00	s METAL 15 1% 1/6W
R2	1-215-377-00	s METAL 15 1% 1/6W



DC-67 BOARD

Ref. No. or Q'ty	Part No.	SP Description
lpc	A-8310-452-A	o MOUNTED CIRCUIT BOARD, DC-67 This board includes the DC-68 board.
lpc	3-685-555-01	o CASE, SHILD(B)
lpc	3-685-557-01	o SHEET, INSULATING
C11	1-128-376-11	s ELECT 220uF 20% 25V
C12	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C13	1-104-484-11	s ELECT 82uF 20% 10V
C14	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C15	1-127-531-11	s ALUMN SOLID 33uF 20% 20V
C16	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C17	1-104-484-11	s ELECT 82uF 20% 10V
C18	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C19	1-127-558-11	s ALUMN SOLID 10uF 20% 10V
C31	1-128-376-11	s ELECT 220uF 20% 25V
C32	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C33	1-128-125-11	s ELECT 180uF 20% 16V
C34	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C35	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C36	1-127-512-00	s ALUMN SOLID 10uF 20% 16V
C37	1-104-484-11	s ELECT 82uF 20% 10V
C38	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C39	1-127-558-11	s ALUMN SOLID 10uF 20% 10V
C51	1-128-376-11	s ELECT 220uF 20% 25V
C52	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C53	1-127-531-11	s ALUMN SOLID 33uF 20% 20V
C54	1-127-496-00	s ALUMN SOLID 6.8uF 20% 16V
C60	1-107-519-11	s ELECT 47uF 20% 50V
C61	1-107-519-11	s ELECT 47uF 20% 50V
C62	1-163-035-00	s CERAMIC, CHIP 0.047uF 50V
C63	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
CN1	1-564-011-11	o CONNECTOR 12P, MALE
CN2	1-564-011-11	o CONNECTOR 12P, MALE
D11	8-719-980-78	s DIODE ERA81-004
D12	8-719-980-78	s DIODE ERA81-004
D31	8-719-980-78	s DIODE ERA81-004
D32	8-719-980-78	s DIODE ERA81-004
D51	8-719-938-75	s DIODE SB05-05CP
D54	8-719-938-75	s DIODE SB05-05CP
D55	8-719-938-75	s DIODE SB05-05CP
L1	1-410-283-11	s COIL, CHOKE 48uH
L11	1-410-283-11	s COIL, CHOKE 48uH
L12	1-410-625-11	s COIL, CHOKE 33uH
L13	1-410-627-11	s COIL, CHOKE 100uH
L14	1-410-625-11	s COIL, CHOKE 33uH
L31	1-410-627-11	s COIL, CHOKE 100uH
L32	1-410-625-11	s COIL, CHOKE 33uH
L33	1-410-626-11	s COIL, CHOKE 47uH
L34	1-410-625-11	s COIL, CHOKE 33uH
L51	1-424-298-11	s COIL, CHOKE 82uH
Q11	8-729-920-53	s TRANSISTOR FMY1
Q12	8-729-927-83	s TRANSISTOR IRFU9020
Q13	8-729-920-53	s TRANSISTOR FMY1
Q14	8-729-927-83	s TRANSISTOR IRFU9020
Q31	8-729-920-53	s TRANSISTOR FMY1
Q32	8-729-120-53	s TRANSISTOR 2SJ132-Z
Q33	8-729-920-53	s TRANSISTOR FMY1

(DC-67 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q34	8-729-927-83	s TRANSISTOR IRFU9020
Q51	8-729-920-53	s TRANSISTOR FMY1
Q52	8-729-927-83	s TRANSISTOR IRFU9020
R11	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R12	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R13	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R14	1-216-682-11	s METAL, CHIP 20k 0.5% 1/10W
R15	1-216-671-11	s METAL, CHIP 6.8k 0.5% 1/10W
R16	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R17	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R18	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R19	1-216-683-11	s METAL, CHIP 22k 0.5% 1/10W
R21	1-208-789-11	s METAL, CHIP 2k 0.5% 1/10W
R22	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R23	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R24	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R31	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R32	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R33	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R34	1-216-689-11	s METAL, CHIP 39k 0.5% 1/10W
R35	1-216-671-11	s METAL, CHIP 6.8k 0.5% 1/10W
R36	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R37	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R38	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R39	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R40	1-216-671-11	s METAL, CHIP 6.8k 0.5% 1/10W
R41	1-216-665-11	s METAL, CHIP 3.9k 0.5% 1/10W
R42	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R43	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R51	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R52	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R53	1-216-001-00	s METAL, CHIP 10 5% 1/10W
R54	1-216-689-11	s METAL, CHIP 39k 0.5% 1/10W
R56	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R57	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R58	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
T51	1-426-660-11	s TRANSFORMER, DC/DC CONVERTER

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DC-68 BOARD  
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Ref. No.  
or Q'ty Part No. SP Description

All of the component parts on the DC-68 board are supplied together when you order the DC-67 board.

C101	1-135-138-11	s TANTALUM 10uF 20% 25V
C102	1-135-138-11	s TANTALUM 10uF 20% 25V
C104	1-128-376-11	s ELECT 220uF 20% 25V
C105	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C111	1-135-179-21	s TANTALUM 2.2uF 10% 16V
C113	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C115	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C116	1-163-033-91	s CERAMIC, CHIP 0.022uF 50V
C117	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C118	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C119	1-163-033-91	s CERAMIC, CHIP 0.022uF 50V
C120	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C133	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C134	1-163-033-91	s CERAMIC, CHIP 0.022uF 50V
C135	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C136	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
C137	1-163-033-91	s CERAMIC, CHIP 0.022uF 50V
C138	1-135-072-21	s TANTALUM, CHIP 0.22uF 10% 35V
C151	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C152	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C153	1-163-033-91	s CERAMIC, CHIP 0.022uF 50V
C154	1-163-133-00	s CERAMIC, CHIP 470pF 5% 50V
D101	8-719-911-55	s DIODE U05G
D102	8-719-021-31	s DIODE UZM5.1B
IC101	8-759-981-65	s IC LM2903M
IC102	8-759-972-78	s IC TL1453CNS-T2
IC103	8-759-972-78	s IC TL1453CNS-T2
IC104	8-759-972-78	s IC TL1453CNS-T2
PS101	△ 1-532-847-21	s LINK, IC 6.3A
Q101	8-729-927-83	s TRANSISTOR IRFU9020
Q103	8-729-901-01	s TRANSISTOR DTC144EK
Q104	8-729-901-01	s TRANSISTOR DTC144EK
Q105	8-729-900-53	s TRANSISTOR DTC114EK
Q106	8-729-901-06	s TRANSISTOR DTA144EK
R101	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R102	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R103	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R104	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R105	1-216-065-00	s METAL, CHIP 4.7k 5% 1/10W
R109	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R110	1-216-077-00	s METAL, CHIP 15k 5% 1/10W
R111	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R113	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R114	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R115	1-216-685-11	s METAL, CHIP 27k 0.5% 1/10W
R116	1-216-666-11	s METAL, CHIP 4.3k 0.5% 1/10W
R117	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R118	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R119	1-216-079-00	s METAL, CHIP 18k 5% 1/10W
R120	1-216-093-00	s METAL, CHIP 68k 5% 1/10W
R123	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R131	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R132	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R134	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W

(DC-68 BOARD)

Ref. No.  
or Q'ty Part No. SP Description

R135	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R136	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R151	1-216-079-00	s METAL, CHIP 18k 5% 1/10W
R152	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R153	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R154	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R155	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R156	1-216-667-11	s METAL, CHIP 4.7k 0.5% 1/10W
R157	1-216-089-00	s METAL, CHIP 47k 5% 1/10W

# DR-254 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-595-A	o MOUNTED CIRCUIT BOARD, DR-254
C1	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C2	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C3	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C4	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C5	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C6	1-163-239-11	s CERAMIC, CHIP 33pF 5% 50V
C7	1-163-239-11	s CERAMIC, CHIP 33pF 5% 50V
C8	1-163-135-00	s CERAMIC, CHIP 560pF 5% 50V
C9	1-163-135-00	s CERAMIC, CHIP 560pF 5% 50V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C11	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C12	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
CN303	1-765-133-11	s CABLE, FLAT 16P
CN320	1-569-335-11	s CONNECTOR, BB 9P, MALE
CN601	1-564-011-11	o CONNECTOR 12P, MALE
CN650	1-562-772-11	o CONNECTOR 12P, FEMALE
CN651	1-562-772-11	o CONNECTOR 12P, FEMALE
IC1	8-759-821-88	s IC CXA8004M-TP1
IC2	8-759-144-75	s IC UPC4572G2-E2
R1	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R2	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R3	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R4	1-216-067-00	s METAL, CHIP 5.6k 5% 1/10W
R5	1-216-067-00	s METAL, CHIP 5.6k 5% 1/10W
R6	1-216-105-91	s METAL, CHIP 220k 5% 1/10W
R7	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R8	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R9	1-216-105-91	s METAL, CHIP 220k 5% 1/10W
R10	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R11	1-216-041-00	s METAL, CHIP 470 5% 1/10W

# FE-18 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-593-A	o MOUNTED CIRCUIT BOARD, FE-18
C1	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C2	1-163-017-00	s CERAMIC, CHIP 0.0047uF 5% 50V
C3	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C4	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 100V
C5	1-136-562-11	s FILM 0.0082uF 5% 630V
C6	1-163-125-00	s CERAMIC, CHIP 220pF 5% 50V
C7	1-164-756-11	s CERAMIC, CHIP 0.0033uF 5% 50V
C10	1-126-157-11	s ELECT 10uF 20% 16V
CN320	1-506-488-11	s CONNECTOR 9P, MALE
L1	1-464-909-11	s COIL, SENSOR
L2	1-408-429-00	s INDUCTOR 470uH
L3	1-408-429-00	s INDUCTOR 470uH
Q1	8-729-141-75	s TRANSISTOR 2SD596DV345
Q2	8-729-141-75	s TRANSISTOR 2SD596DV345
R1	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R2	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R3	1-217-671-11	s METAL, CHIP 1 5% 1/10W
T1	1-424-511-11	s TRANSFORMER, FE

# KY-285 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-589-A	o MOUNTED CIRCUIT BOARD, KY-285
CN1	1-566-526-11	s CONNECTOR, FPC (ZIF) 10P
D1	8-719-989-97	s LED CL-150SD-CD, RED
D2	8-719-989-97	s LED CL-150SD-CD, RED
D3	8-719-989-97	s LED CL-150SD-CD, RED
R1	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R2	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R3	1-216-045-00	s METAL, CHIP 680 5% 1/10W
S1	1-570-910-21	s SWITCH, PUSH
S2	1-570-910-21	s SWITCH, PUSH
S3	1-570-910-21	s SWITCH, PUSH
S4	1-570-910-21	s SWITCH, PUSH
S5	1-570-910-21	s SWITCH, PUSH

# LED-214 BOARD

Ref. No.  
or Q'ty Part No. SP Description

All of the component parts on the LED-214 board are supplied together when you order the CN-1123 board.

1pc 1-651-988-11 o PRINTED CIRCUIT BOARD, LED-214  
D1 8-719-902-27 s LED EBR3402S, RED

# MB-552 BOARD

Ref. No.  
or Q'ty Part No. SP Description

1pc A-8310-451-A o MOUNTED CIRCUIT BOARD, MB-552  
1pc 3-685-687-01 o COVER, MB-CN  
C21 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
C22 1-126-396-11 s ELECT, CHIP 47uF 20% 16V  
C23 1-126-396-11 s ELECT, CHIP 47uF 20% 16V  
C24 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V  
C31 1-163-038-91 s CERAMIC, CHIP 0.1uF 25V  
CN11 1-764-875-21 s CONNECTOR, FPC 25P  
CN14 1-765-135-11 s CABLE, FLAT 24P  
CN15 1-765-132-11 s CABLE, FLAT 10P  
CN16 1-765-134-11 s CABLE, FLAT 24P  
CN17 1-765-138-11 s CABLE, FLAT 30P  
CN18 1-765-137-11 s CABLE, FLAT 26P  
CN19 1-765-139-11 s CABLE, FLAT 30P  
CN20 1-765-139-11 s CABLE, FLAT 30P  
CN21 1-506-491-11 s CONNECTOR 12P, MALE  
CN22 1-566-763-11 o CONNECTOR 8P, MALE  
CN23 1-560-356-00 o CONNECTOR, ILG 2P, MALE  
CN24 1-506-703-11 o CONNECTOR, ILG 4P, MALE  
CN25 1-560-365-00 o CONNECTOR, ILG 3P, MALE  
CN26 1-690-107-11 o CONNECTOR, BB 12P, FEMALE  
CN27 1-690-107-11 o CONNECTOR, BB 12P, FEMALE  
CN28 1-566-521-11 s CONNECTOR, FPC (ZIF) 5P  
CN29 1-560-364-00 o CONNECTOR, ILG 2P, MALE  
PS50  $\Delta$  1-533-348-11 s LINK, IC, CHIP 4A  
PS51  $\Delta$  1-533-284-11 s LINK, IC, CHIP 1.6A  
PS60  $\Delta$  1-533-348-11 s LINK, IC, CHIP 4A  
PS90  $\Delta$  1-533-400-11 s LINK, IC, CHIP 1A  
PS91  $\Delta$  1-533-400-11 s LINK, IC, CHIP 1A  
PS120  $\Delta$  1-533-348-11 s LINK, IC, CHIP 4A  
Q21 8-729-106-60 s TRANSISTOR 2SB1115A  
Q22 8-729-901-01 s TRANSISTOR DTC144EK  
Q23 8-729-106-60 s TRANSISTOR 2SB1115A  
Q24 8-729-216-22 s TRANSISTOR 2SA1162  
R21 1-216-045-00 s METAL, CHIP 680 5% 1/10W  
R22 1-216-073-00 s METAL, CHIP 10k 5% 1/10W  
R23 1-216-089-00 s METAL, CHIP 47k 5% 1/10W  
R24 1-216-057-00 s METAL, CHIP 2.2k 5% 1/10W  
R25 1-216-045-00 s METAL, CHIP 680 5% 1/10W  
R26 1-216-057-00 s METAL, CHIP 2.2k 5% 1/10W  
R27 1-216-073-00 s METAL, CHIP 10k 5% 1/10W  
R31 1-216-073-00 s METAL, CHIP 10k 5% 1/10W  
R32 1-216-073-00 s METAL, CHIP 10k 5% 1/10W  
R40 1-216-023-00 s METAL, CHIP 82 5% 1/10W

SR-55 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8275-594-A	o MOUNTED CIRCUIT BOARD, SR-55
C1	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C2	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
CN309	1-765-130-11	s CABLE, FLAT 8P
PH1	8-719-948-58	s DIODE GP2S07B
PH2	8-719-948-58	s DIODE GP2S07B
PH3	8-719-948-58	s DIODE GP2S07B
PH4	8-719-948-58	s DIODE GP2S07B
Q1	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q2	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q3	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q4	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
R1	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R2	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R3	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R4	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R5	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R6	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R7	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R8	1-216-109-00	s METAL, CHIP 330k 5% 1/10W
R9	1-216-073-00	s METAL, CHIP 10k 5% 1/10W

SS-57C BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8310-455-A	o MOUNTED CIRCUIT BOARD, SS-57C
C1	1-124-779-00	s ELECT 10uF 20% 16V
C2	1-126-193-11	s ELECT 1uF 20% 50V
C3	1-126-603-11	s ELECT 4.7uF 20% 35V
C4	1-163-099-00	s CERAMIC, CHIP 18pF 5% 50V
C5	1-163-237-11	s CERAMIC, CHIP 27pF 5% 50V
C6	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C7	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C8	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-126-205-11	s ELECT 47uF 20% 6.3V
C10	1-124-778-00	s ELECT 22uF 20% 6.3V
C12	1-124-778-00	s ELECT 22uF 20% 6.3V
C13	1-126-397-11	s ELECT, CHIP 33uF 20% 25V
C14	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C15	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C16	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C17	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C19	1-164-756-11	s CERAMIC, CHIP 0.0033uF 5% 50V
C21	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C22	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C23	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C24	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C25	1-126-206-11	s ELECT 100uF 20% 6.3V
C201	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C202	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C204	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C205	1-124-778-00	s ELECT 22uF 20% 6.3V
C206	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C207	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C208	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C209	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C211	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C212	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C213	1-162-967-11	s CERAMIC, CHIP 3300pF 10% 50V
C214	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C215	1-135-211-11	s TANTALUM, CHIP 6.8uF 20% 6.3V
C216	1-162-963-11	s CERAMIC, CHIP 680pF 10% 50V
C217	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C218	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C219	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C220	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C221	1-163-099-00	s CERAMIC, CHIP 18pF 5% 50V
C222	1-163-237-11	s CERAMIC, CHIP 27pF 5% 50V
C223	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C224	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C225	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C226	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C227	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C228	1-126-941-11	s ELECT 470uF 20% 25V
C229	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C230	1-126-630-11	s ELECT 82uF 20% 25V
C231	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C236	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C237	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C238	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C239	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C240	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C241	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C242	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C243	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C244	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C245	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C246	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C247	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C248	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C249-257	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C258	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C259	1-124-779-00	s ELECT 10uF 20% 16V
C260	1-124-779-00	s ELECT 10uF 20% 16V
C261	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C262	1-126-943-11	s ELECT 2200uF 20% 25V
C401	1-162-967-11	s CERAMIC, CHIP 3300pF 10% 50V
C402	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C405	1-162-967-11	s CERAMIC, CHIP 3300pF 10% 50V
C406	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C407	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C408	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C409	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C410	1-164-677-11	s CERAMIC, CHIP 0.033uF 10% 16V
C411	1-162-969-11	s CERAMIC, CHIP 0.0068uF 10% 25V
C412	1-162-965-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C413	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C414	1-126-630-11	s ELECT 82uF 20% 25V
C415	1-162-968-11	s CERAMIC, CHIP 0.0047uF 10% 50V
C416	1-126-630-11	s ELECT 82uF 20% 25V
C417	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C421	1-124-778-00	s ELECT 22uF 20% 6.3V
C422	1-124-779-00	s ELECT 10uF 20% 16V
C423	1-124-779-00	s ELECT 10uF 20% 16V
C424	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C500	1-163-038-91	s CERAMIC, CHIP 0.1uF 25V
C501	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C502	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C503	1-162-963-11	s CERAMIC, CHIP 680pF 10% 50V
C504	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C505	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C506	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
CN301	1-569-035-11	o CONNECTOR, FPC 30P
CN302	1-565-212-11	s CONNECTOR, FPC (ZIF) 26P
CN303	1-566-532-11	s CONNECTOR, FPC 16P
CN304	1-566-531-11	s CONNECTOR, FPC (ZIF) 15P
CN305	1-506-481-11	s CONNECTOR 2P, MALE
CN306	1-566-521-11	s CONNECTOR, FPC (ZIF) 5P
CN307	1-566-526-11	s CONNECTOR, FPC (ZIF) 10P
CN308	1-506-481-11	s CONNECTOR 2P, MALE
CN309	1-566-524-11	s CONNECTOR, FPC (ZIF) 8P
CN311	1-506-484-11	s CONNECTOR 5P, MALE
CN312	1-691-551-11	s CONNECTOR 8P, MALE
CN350	1-506-485-11	s CONNECTOR 6P, MALE
D1	8-719-404-35	s DIODE MA141WK
D2	8-719-157-42	s DIODE RD8.2M-B
D201	8-719-404-35	s DIODE MA141WK
D202	8-719-404-35	s DIODE MA141WK
D203	8-719-404-35	s DIODE MA141WK
D204	8-719-028-74	s DIODE NSQ03A04
D205	8-719-106-88	s DIODE RD15M-B1

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D206	8-719-210-56	s DIODE EC10QS10
D401	8-719-404-35	s DIODE MA141WK
D403	8-719-028-74	s DIODE NSQ03A04
D404	8-719-106-88	s DIODE RD15M-B1
D405	8-719-210-56	s DIODE EC10QS10
D406	8-719-800-76	s DIODE 1SS226
IC2	8-759-940-45	s IC S-8054HN-CB
IC3	8-759-009-51	s IC MC14538BF
IC4	8-759-925-74	s IC TC74HC04ANS
IC6	8-759-805-32	s IC LA7205M
IC202	8-759-700-43	s IC NJM4558M
IC203	8-759-700-43	s IC NJM4558M
IC204	8-759-700-07	s IC NJM2903M
IC205	8-759-009-11	s IC MC14070BF
IC206	8-759-008-82	s IC MC14013BF
IC207	8-759-300-71	s IC HD14053BFP
IC208	8-759-111-56	s IC UPC4572G2
IC209	8-759-700-07	s IC NJM2903M
IC210	8-759-100-95	s IC UPC324G2
IC211	8-759-981-61	s IC LM2901M
IC213	8-759-300-71	s IC HD14053BFP
IC214	8-759-159-70	s IC BR9021BF
IC216	8-759-009-12	s IC MC14071BF
IC217	8-759-245-52	s IC TA7291F
IC218	8-759-067-52	s IC MB88347PFV-G-BND-ER
IC219	8-759-821-88	s IC CXA8004M-TP1
IC220	8-759-700-07	s IC NJM2903M
IC500	8-759-111-56	s IC UPC4572G2
IC501	8-759-300-71	s IC HD14053BFP
L1	1-410-626-11	s COIL, CHOKO 47uH
L2	1-410-390-11	s INDUCTOR, CHIP 56uH
L201	1-424-517-11	s COIL, CHOKO 200uH
L202	1-408-777-00	s INDUCTOR, CHIP 10uH
L203	1-408-777-00	s INDUCTOR, CHIP 10uH
L204	1-408-777-00	s INDUCTOR, CHIP 10uH
L205	1-408-777-00	s INDUCTOR, CHIP 10uH
L206	1-410-390-11	s INDUCTOR, CHIP 56uH
L207	1-424-517-11	s COIL, CHOKO 200uH
L401	1-424-517-11	s COIL, CHOKO 200uH
L402	1-410-626-11	s COIL, CHOKO 47uH
PH1	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH2	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH3	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PH5	8-719-939-11	s PHOTOINTERRUPTER GP-2S09-B
PH6	8-719-939-11	s PHOTOINTERRUPTER GP-2S09-B
Q1	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q2	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q3	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q5	8-729-920-48	s TRANSISTOR IMH2
Q6	8-729-920-48	s TRANSISTOR IMH2
Q8	8-729-920-48	s TRANSISTOR IMH2
Q9	8-729-920-48	s TRANSISTOR IMH2
Q10	8-729-925-47	s TRANSISTOR IMB2
Q11	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q12	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q13	8-729-920-48	s TRANSISTOR IMH2
Q14	8-729-925-47	s TRANSISTOR IMB2

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q201	8-729-209-07	s TRANSISTOR 2SC4213-B
Q203	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q204	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q207	8-729-120-53	s TRANSISTOR 2SJ132-Z
Q208	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q209	8-729-220-93	s TRANSISTOR 2SK209-G
Q210	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q211	8-729-905-23	s TRANSISTOR 2SA1576-R
Q212	8-729-807-51	s TRANSISTOR 2SD1623-S
Q213	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q214	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q215	8-729-905-23	s TRANSISTOR 2SA1576-R
Q216	8-729-141-75	s TRANSISTOR 2SD596DV345
Q217	8-729-141-75	s TRANSISTOR 2SD596DV345
Q402	8-729-923-99	s TRANSISTOR DTA114YU
Q404	8-729-120-53	s TRANSISTOR 2SJ132-Z
Q405	8-729-905-23	s TRANSISTOR 2SA1576-R
Q406	8-729-807-51	s TRANSISTOR 2SD1623-S
Q407	8-729-220-93	s TRANSISTOR 2SK209-G
Q408	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q409	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q410	8-729-905-23	s TRANSISTOR 2SA1576-R
Q411	8-729-141-75	s TRANSISTOR 2SD596DV345
Q412	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q500	8-729-209-07	s TRANSISTOR 2SC4213-B
Q501	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q502	8-729-905-23	s TRANSISTOR 2SA1576-R
R1-6	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R7-12	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R13	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R14	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R15	1-216-818-11	s METAL, CHIP 560 5% 1/16W
R16	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R17	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R18	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R19	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R20	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R21	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R22	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R23	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R24	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R25	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R26	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R27	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R28	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R29	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R30	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R31	1-218-730-11	s METAL, CHIP 39k 0.5% 1/16W
R32	1-218-881-11	s METAL, CHIP 27k 0.5% 1/16W
R33	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R34	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R35	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R36	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R37	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R38	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R39	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R40	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R41	1-216-821-11	s METAL, CHIP 1k 5% 1/16W

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R46	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R47	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R48	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R49	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R50	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R51	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R52	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R55	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R56	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R57	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R58	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R59	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R60	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R61-65	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R68	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R69	1-216-816-11	s METAL, CHIP 390 5% 1/16W
R70	1-216-057-00	s METAL, CHIP 2.2k 5% 1/16W
R71	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R74	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R76	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R77	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R78	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R79	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R81	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R82	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R83	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R84	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R85	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R86	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R87	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R89	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R90	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R91	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R92	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R93	1-218-727-11	s METAL, CHIP 30k 0.50% 1/16W
R94	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R95	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R96	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R97	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R98	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R99	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R100	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R101	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R102-106	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R107	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R108	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R109	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R110	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R111	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R113	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R120	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R121	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R122	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R201	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R202	1-216-081-00	s METAL, CHIP 22k 5% 1/10W
R203	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R205	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R206	1-216-855-11	s METAL, CHIP 680k 5% 1/16W
R207	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R208	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R209	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R210	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R211	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R212	1-216-831-11 s	METAL, CHIP 6.8k 5% 1/16W
R213	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R215	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R216	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R218	1-218-708-11 s	METAL, CHIP 4.7k 0.50% 1/16W
R219	1-218-708-11 s	METAL, CHIP 4.7k 0.50% 1/16W
R220	1-218-708-11 s	METAL, CHIP 4.7k 0.50% 1/16W
R221	1-218-708-11 s	METAL, CHIP 4.7k 0.50% 1/16W
R222	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R223	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R224	1-216-851-11 s	METAL, CHIP 330k 5% 1/16W
R225	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R226	1-216-855-11 s	METAL, CHIP 680k 5% 1/16W
R227	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R228	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R229	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R230	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R231	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R232	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R233	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R234	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R235	1-216-061-00 s	METAL, CHIP 3.3k 5% 1/10W
R236	1-216-053-00 s	METAL, CHIP 1.5k 5% 1/10W
R237	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R238	1-216-853-11 s	METAL, CHIP 470k 5% 1/16W
R239	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R240	1-216-855-11 s	METAL, CHIP 680k 5% 1/16W
R241	1-216-855-11 s	METAL, CHIP 680k 5% 1/16W
R242	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R243	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R244	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R245	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R246	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R247	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R248	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R249	1-216-852-11 s	METAL, CHIP 390k 5% 1/16W
R250	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R251	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R252	1-216-852-11 s	METAL, CHIP 390k 5% 1/16W
R253	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R254-258	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R259-263	1-216-049-00 s	METAL, CHIP 1k 5% 1/10W
R265	1-216-097-00 s	METAL, CHIP 100k 5% 1/10W
R266	1-216-097-00 s	METAL, CHIP 100k 5% 1/10W
R267	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R268	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R269	1-216-840-11 s	METAL, CHIP 39k 5% 1/16W
R270	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R271	1-216-840-11 s	METAL, CHIP 39k 5% 1/16W
R272	1-216-843-11 s	METAL, CHIP 68k 5% 1/16W
R273	1-216-836-11 s	METAL, CHIP 18k 5% 1/16W
R274	1-216-073-00 s	METAL, CHIP 10k 5% 1/10W
R275	1-216-073-00 s	METAL, CHIP 10k 5% 1/10W
R276	1-216-049-00 s	METAL, CHIP 1k 5% 1/10W
R277	1-216-049-00 s	METAL, CHIP 1k 5% 1/10W

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R278	1-216-097-00 s	METAL, CHIP 100k 5% 1/10W
R279	1-216-049-00 s	METAL, CHIP 1k 5% 1/10W
R281	1-216-061-00 s	METAL, CHIP 3.3k 5% 1/10W
R282	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R283	1-216-071-00 s	METAL, CHIP 8.2k 5% 1/10W
R284	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R285	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R286	1-216-853-11 s	METAL, CHIP 470k 5% 1/16W
R287	1-216-853-11 s	METAL, CHIP 470k 5% 1/16W
R288	1-216-854-11 s	METAL, CHIP 560k 5% 1/16W
R289	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R290	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R291	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R292	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R293	1-216-304-11 s	METAL, CHIP 3.3 5% 1/10W
R294	1-216-304-11 s	METAL, CHIP 3.3 5% 1/10W
R295	1-216-057-00 s	METAL, CHIP 2.2k 5% 1/10W
R296	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R297	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R298	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R299	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R300	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R301	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R302	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R303	1-216-041-00 s	METAL, CHIP 470 5% 1/10W
R304	1-216-849-11 s	METAL, CHIP 220k 5% 1/16W
R305	1-216-849-11 s	METAL, CHIP 220k 5% 1/16W
R306	1-216-849-11 s	METAL, CHIP 220k 5% 1/16W
R307	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R308	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R309	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R310	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R311	1-216-081-00 s	METAL, CHIP 22k 5% 1/10W
R312	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R313	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R314	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R315	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R316	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R318	1-216-812-11 s	METAL, CHIP 180 5% 1/16W
R319	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R320	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R321	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R322	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R323	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R324	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R325	1-218-881-11 s	METAL, CHIP 27k 0.5% 1/16W
R326	1-218-881-11 s	METAL, CHIP 27k 0.5% 1/16W
R327	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R328	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R329	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R331	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R332	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R333	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R334	1-216-306-11 s	METAL, CHIP 3.9 5% 1/10W
R335	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R336	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R337	1-216-089-00 s	METAL, CHIP 47k 5% 1/10W
R338	1-216-085-00 s	METAL, CHIP 33k 5% 1/10W
R401	1-216-826-11 s	METAL, CHIP 2.7k 5% 1/16W



## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R402	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R403	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R404	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R405	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R409	1-216-830-11	s METAL, CHIP 5.6k 5% 1/16W
R410	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R411	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R412	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R414	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R415	1-216-855-11	s METAL, CHIP 680k 5% 1/16W
R416	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R417	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R418	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R419	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R420	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R421	1-216-053-00	s METAL, CHIP 1.5k 5% 1/10W
R422	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R423	1-216-083-00	s METAL, CHIP 27k 5% 1/10W
R424	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R425	1-216-081-00	s METAL, CHIP 22k 5% 1/10W
R426	1-216-840-11	s METAL, CHIP 39k 5% 1/16W
R427	1-216-843-11	s METAL, CHIP 68k 5% 1/16W
R428	1-216-836-11	s METAL, CHIP 18k 5% 1/16W
R429	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R430	1-216-073-00	s METAL, CHIP 10k 5% 1/10W
R431	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R432	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R433	1-216-061-00	s METAL, CHIP 3.3k 5% 1/10W
R434	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R435	1-216-071-00	s METAL, CHIP 8.2k 5% 1/10W
R436	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R437	1-216-057-00	s METAL, CHIP 2.2k 5% 1/10W
R438	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R439	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R440	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R441	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R443	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R444	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R446	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R447	1-216-085-00	s METAL, CHIP 33k 5% 1/10W
R448	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R449	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R450	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R452	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R453	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R454	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R455	1-216-089-00	s METAL, CHIP 47k 5% 1/10W
R456	1-216-049-00	s METAL, CHIP 1k 5% 1/10W
R457	1-216-097-00	s METAL, CHIP 100k 5% 1/10W
R458	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R459	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R500	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R501	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R502	1-216-824-11	s METAL, CHIP 1.8k 5% 1/16W
R503	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R504	1-216-811-11	s METAL, CHIP 150 5% 1/16W
R505	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R506	1-216-826-11	s METAL, CHIP 2.7k 5% 1/16W
R507	1-216-833-11	s METAL, CHIP 10k 5% 1/16W

## (SS-57C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R508	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R509	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R510	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R511	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R512	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R513	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R514	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
S1	1-572-719-11	s SWITCH, PUSH
X1	1-760-337-21	s CRYSTAL 12.00MHz
X201	1-760-337-21	s CRYSTAL 12.00MHz

## TC-86C BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8310-456-A	o MOUNTED CIRCUIT BOARD, TC-86C
BT911	1-550-104-32	s HOLDER, BATTERY
C10	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C11	1-124-779-00	s ELECT 10uF 20% 16V
C12	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C13	1-124-779-00	s ELECT 10uF 20% 16V
C14	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C15	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C16	1-126-397-11	s ELECT, CHIP 33uF 20% 25V
C17	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C18	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C19	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C20	1-162-918-11	s CERAMIC, CHIP 18pF 5% 50V
C21	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C22	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C23	1-162-920-11	s CERAMIC, CHIP 27pF 5% 50V
C24	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C25	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C101	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C102	1-126-193-11	s ELECT 1uF 20% 50V
C103	1-128-049-11	s ELECT, CHIP 1uF 50V
C104	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C105	1-126-193-11	s ELECT 1uF 20% 50V
C106	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C107	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C108	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C109	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C110	1-163-145-00	s CERAMIC, CHIP 0.0015uF 5% 50V
C111	1-163-137-00	s CERAMIC, CHIP 680pF 5% 50V
C112	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C113	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C114	1-124-779-00	s ELECT 10uF 20% 16V
C115	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C116	1-124-779-00	s ELECT 10uF 20% 16V
C117	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C118	1-124-779-00	s ELECT 10uF 20% 16V
C119	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C201	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C202	1-126-193-11	s ELECT 1uF 20% 50V
C203	1-128-049-11	s ELECT, CHIP 1uF 50V
C204	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C205	1-126-193-11	s ELECT 1uF 20% 50V
C206	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C207	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C208	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C209	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C210	1-163-145-00	s CERAMIC, CHIP 0.0015uF 5% 50V
C211	1-163-137-00	s CERAMIC, CHIP 680pF 5% 50V
C213	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C214	1-124-779-00	s ELECT 10uF 20% 16V
C215	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C216	1-124-779-00	s ELECT 10uF 20% 16V
C217	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C218	1-124-779-00	s ELECT 10uF 20% 16V
C219	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C220	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C303	1-124-779-00	s ELECT 10uF 20% 16V

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C304	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C403	1-124-779-00	s ELECT 10uF 20% 16V
C404	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C501	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C502	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C503	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C504	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C505	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C506	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C507	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C508	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C509	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C510	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C511	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C512	1-124-779-00	s ELECT 10uF 20% 16V
C513	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C550	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C551	1-163-215-00	s CERAMIC, CHIP 0.0027uF 5% 50V
C552	1-163-141-00	s CERAMIC, CHIP 0.001uF 5% 50V
C553	1-162-959-11	s CERAMIC, CHIP 330pF 5% 50V
C554	1-107-498-11	s FILM, CHIP 0.0022uF 2% 50V
C556	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C557	1-107-498-11	s FILM, CHIP 0.0022uF 2% 50V
C559	1-107-499-11	s FILM, CHIP 0.0039uF 2% 16V
C560	1-163-135-00	s CERAMIC, CHIP 560pF 5% 50V
C561	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C562	1-164-492-11	s CERAMIC, CHIP 0.15uF 10% 16V
C563	1-164-695-11	s CERAMIC 0.0022uF 5% 50V
C564	1-107-828-11	s FILM, CHIP 0.015uF 2% 16V
C565	1-164-346-11	s CERAMIC 1uF 16V
C566	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C567	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C568	1-107-829-11	s FILM, CHIP 0.056uF 2% 16V
C570	1-163-020-00	s CERAMIC, CHIP 0.0082uF 10% 50V
C571	1-164-346-11	s CERAMIC 1uF 16V
C572	1-107-553-11	s FILM, CHIP 0.0056uF 2% 16V
C573	1-163-139-00	s CERAMIC, CHIP 820pF 5% 50V
C574	1-107-827-11	s FILM, CHIP 0.01uF 2% 16V
C575	1-164-695-11	s CERAMIC 0.0022uF 5% 50V
C576	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C601	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C602	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C603	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C604	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C605	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C606	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C607	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C608	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C609	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C610	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C611	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C612	1-124-779-00	s ELECT 10uF 20% 16V
C613	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C650	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C651	1-163-215-00	s CERAMIC, CHIP 0.0027uF 5% 50V
C652	1-163-141-00	s CERAMIC, CHIP 0.001uF 5% 50V
C653	1-162-959-11	s CERAMIC, CHIP 330pF 5% 50V
C654	1-107-498-11	s FILM, CHIP 0.0022uF 2% 50V
C656	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C657	1-107-498-11	s FILM, CHIP 0.0022uF 2% 50V
C659	1-107-499-11	s FILM, CHIP 0.0039uF 2% 16V
C660	1-163-135-00	s CERAMIC, CHIP 560pF 5% 50V
C661	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C662	1-164-492-11	s CERAMIC, CHIP 0.15uF 10% 16V
C663	1-164-695-11	s CERAMIC, CHIP 0.0022uF 5% 50V
C664	1-107-828-11	s FILM, CHIP 0.015uF 2% 16V
C665	1-164-346-11	s CERAMIC 1uF 16V
C666	1-164-489-11	s CERAMIC, CHIP 0.22uF 10% 16V
C667	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C668	1-107-829-11	s FILM, CHIP 0.056uF 2% 16V
C670	1-163-020-00	s CERAMIC, CHIP 0.0082uF 10% 50V
C671	1-164-346-11	s CERAMIC, CHIP 1uF 16V
C672	1-107-553-11	s FILM, CHIP 0.0056uF 2% 16V
C673	1-163-139-00	s CERAMIC, CHIP 820pF 5% 50V
C674	1-107-827-11	s FILM, CHIP 0.01uF 2% 16V
C675	1-164-695-11	s CERAMIC 0.0022uF 5% 50V
C676	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C701	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C704	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C705	1-126-193-11	s ELECT 1uF 20% 50V
C706	1-126-193-11	s ELECT 1uF 20% 50V
C707	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C708	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C709	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C710	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C713	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C714	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C715	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C716	1-128-024-11	s ELECT, CHIP 4.7uF 10V
C717	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C718	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C719	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C720	1-126-412-11	s ELECT, CHIP 220uF 20% 4V
C721	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C722	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C723	1-128-020-11	s ELECT, CHIP 10uF 6.3V
C727	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C728	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C729	1-164-505-11	s CERAMIC 2.2uF 16V
C730	1-164-505-11	s CERAMIC 2.2uF 16V
C800	1-161-051-00	s CERAMIC 0.01uF 10% 50V
C801	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C802	1-162-922-11	s CERAMIC, CHIP 39pF 5% 50V
C803	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C804	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C806	1-164-357-11	s CERAMIC, CHIP 1000pF 5% 50V
C808	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C809	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C810	1-164-730-11	s CERAMIC, CHIP 0.0012uF 10% 50V
C811	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C812	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C813	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C815	1-162-568-11	s CERAMIC, CHIP 0.33uF 25V
C816	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C817	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C902	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C910	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C911	1-126-601-11	s ELECT 2.2uF 20% 50V

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C912	1-126-601-11	s ELECT 2.2uF 20% 50V
C913	1-124-779-00	s ELECT 10uF 20% 16V
C914	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
C915	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C916	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C917	1-126-206-11	s ELECT 100uF 20% 6.3V
C918	1-124-779-00	s ELECT 10uF 20% 16V
C919	1-164-360-11	s CERAMIC, CHIP 0.1uF 16V
CN1	1-569-035-11	o CONNECTOR, FPC 30P
CN2	1-569-035-11	o CONNECTOR, FPC 30P
CN3	1-573-290-21	s CONNECTOR 4P, MALE
CN101	1-691-550-11	s CONNECTOR 3P, MALE
CN201	1-691-550-11	s CONNECTOR 3P, MALE
CN701	1-691-550-11	s CONNECTOR 3P, MALE
CN703	1-580-055-21	o CONNECTOR 2P, MALE
CV1	1-141-345-11	s CAP, TRIMMER 40pF
D1	8-719-902-27	s LED EBR3402S, RED
D4	8-719-106-22	s DIODE RD7.5M-B1
D5	8-719-105-90	s DIODE RD5.6M-B1
D6	8-719-404-35	s DIODE MA141WK
D101-105	8-719-820-41	s DIODE 1SS302
D201-205	8-719-820-41	s DIODE 1SS302
D550	8-719-820-41	s DIODE 1SS302
D701	8-719-820-41	s DIODE 1SS302
D702	8-719-820-41	s DIODE 1SS302
D704	8-719-024-81	s DIODE 1SS300-TE85L
D705	8-719-024-81	s DIODE 1SS300-TE85L
D802	8-719-105-28	s DIODE RD2.4M-B
D803	8-719-105-28	s DIODE RD2.4M-B
D804	8-719-820-41	s DIODE 1SS302
D805	8-719-820-41	s DIODE 1SS302
D901-908	8-719-987-41	s LED CL-150Y-CD, YEL
D909	8-719-938-72	s DIODE SB01-05CP
D911	8-719-938-72	s DIODE SB01-05CP
D912	8-719-421-30	s DIODE MA141A
IC1	---PENDING---	s IC UPD78P064GF-3BA
IC2	8-759-948-48	s IC RH5A50AA
IC3	8-759-089-05	s IC BR93LC46F
IC10	8-759-150-10	s IC UPD75P516GF
IC101	8-759-144-75	s IC UPC4572G2-E2
IC102	8-759-710-77	s IC NJM4560MD
IC103	8-759-710-77	s IC NJM4560MD
IC104	8-759-144-75	s IC UPC4572G2-E2
IC105	8-759-710-77	s IC NJM4560MD
IC110	8-759-208-09	s IC TC4052BFHB
IC111	8-759-066-57	s IC TC74HC4066AFS
IC113	8-759-242-64	s IC TC4W53F
IC201	8-759-144-75	s IC UPC4572G2-E2
IC202	8-759-710-77	s IC NJM4560MD
IC205	8-759-710-77	s IC NJM4560MD
IC210	8-759-208-09	s IC TC4052BFHB
IC211	8-759-066-57	s IC TC74HC4066AFS
IC213	8-759-242-64	s IC TC4W53F
IC301	8-759-300-71	s IC HD14053BFP
IC303	8-759-700-43	s IC NJM4558M
IC304	8-759-100-94	s IC UPC358G2
IC501	8-759-710-77	s IC NJM4560MD

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC502	8-759-700-43	s IC NJM4558M
IC503	8-759-700-43	s IC NJM4558M
IC504	8-759-700-43	s IC NJM4558M
IC550	8-752-031-28	s IC CXA1098Q
IC602	8-759-700-43	s IC NJM4558M
IC603	8-759-700-43	s IC NJM4558M
IC701	8-759-144-75	s IC UPC4572G2-E2
IC702	8-759-710-77	s IC NJM4560MD
IC703	8-759-711-58	s IC NJM78L05UA
IC705	8-759-075-68	s IC TC4066BFS
IC708	8-759-700-50	s IC NJM386M
IC801	8-759-944-79	s IC CXD1132Q
IC802	8-759-925-74	s IC TC74HC04ANS
IC803	8-759-300-71	s IC HD14053BFP
IC804	8-759-300-71	s IC HD14053BFP
IC805	8-759-700-45	s IC NJM4556M-A
IC806	8-759-100-94	s IC UPC358G2
IC807	8-759-009-02	s IC MC14046BF
IC911	8-759-946-03	s IC S-8054ALR-LN-S
L2	1-410-393-11	s INDUCTOR, CHIP 100uH
L3	1-410-393-11	s INDUCTOR, CHIP 100uH
L4	1-410-381-11	s INDUCTOR, CHIP 10uH
L101	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L102	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L201	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L202	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L701	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L702	1-410-380-31	s INDUCTOR, CHIP 8.2uH
L703	1-408-797-11	s INDUCTOR, CHIP 470uH
L901	1-410-369-11	s INDUCTOR CHIP 1uH
L911	1-410-381-11	s INDUCTOR, CHIP 10uH
ND1	1-810-463-11	s LCD
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q101	8-729-117-32	s TRANSISTOR 2SC4177
Q102	8-729-905-12	s TRANSISTOR DTA144EU
Q104	8-729-905-18	s TRANSISTOR DTC144EU
Q106	8-729-117-32	s TRANSISTOR 2SC4177
Q107	8-729-905-18	s TRANSISTOR DTC144EU
Q108	8-729-117-32	s TRANSISTOR 2SC4177
Q109	8-729-117-32	s TRANSISTOR 2SC4177
Q110	8-729-117-32	s TRANSISTOR 2SC4177
Q111	8-729-907-00	s TRANSISTOR DTC114EU
Q113	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q114	8-729-905-18	s TRANSISTOR DTC144EU
Q115	8-729-905-12	s TRANSISTOR DTA144EU
Q116	8-729-905-18	s TRANSISTOR DTC144EU
Q117	8-729-117-32	s TRANSISTOR 2SC4177
Q118	8-729-905-18	s TRANSISTOR DTC144EU
Q201	8-729-117-32	s TRANSISTOR 2SC4177
Q202	8-729-905-12	s TRANSISTOR DTA144EU
Q204	8-729-905-18	s TRANSISTOR DTC144EU
Q206	8-729-117-32	s TRANSISTOR 2SC4177
Q207	8-729-905-18	s TRANSISTOR DTC144EU
Q208	8-729-117-32	s TRANSISTOR 2SC4177
Q209	8-729-117-32	s TRANSISTOR 2SC4177
Q210	8-729-117-32	s TRANSISTOR 2SC4177

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q211	8-729-907-00	s TRANSISTOR DTC114EU
Q213	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q214	8-729-905-18	s TRANSISTOR DTC144EU
Q215	8-729-905-12	s TRANSISTOR DTA144EU
Q216	8-729-905-18	s TRANSISTOR DTC144EU
Q217	8-729-117-32	s TRANSISTOR 2SC4177
Q218	8-729-905-18	s TRANSISTOR DTC144EU
Q301	8-729-117-32	s TRANSISTOR 2SC4177
Q302	8-729-117-32	s TRANSISTOR 2SC4177
Q401	8-729-117-32	s TRANSISTOR 2SC4177
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q550	8-729-905-12	s TRANSISTOR DTA144EU
Q704	8-729-141-75	s TRANSISTOR 2SD596DV345
Q705	8-729-117-32	s TRANSISTOR 2SC4177
Q706	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q707	8-729-905-18	s TRANSISTOR DTC144EU
Q708	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q709	8-729-905-12	s TRANSISTOR DTA144EU
Q711	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q712	8-729-905-18	s TRANSISTOR DTC144EU
Q713	8-729-141-75	s TRANSISTOR 2SD596DV345
Q714	8-729-905-12	s TRANSISTOR DTA144EU
Q715	8-729-905-12	s TRANSISTOR DTA144EU
Q801	8-729-905-18	s TRANSISTOR DTC144EU
Q901	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q902	8-729-230-49	s TRANSISTOR 2SC2712-YG
Q911	8-729-905-23	s TRANSISTOR 2SA1576-R
Q912	8-729-920-39	s TRANSISTOR IMT1US
Q913	8-729-142-90	s TRANSISTOR 2SK853-K5
Q914	8-729-920-39	s TRANSISTOR IMT1US
Q915	8-729-905-18	s TRANSISTOR DTC144EU
Q916	8-729-117-32	s TRANSISTOR 2SC4177
Q917	8-729-907-26	s TRANSISTOR IMX1
R1	1-216-812-11	s METAL, CHIP 180 5% 1/16W
R2	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R3	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R4	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R5-10	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R11-21	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R22-32	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R33	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R34	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R35-39	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R40	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R42	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R43	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R44	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R45	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R46	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R47	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R48	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R49	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R50	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R51	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R52	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R53	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R54	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R55	1-216-837-11	s METAL, CHIP 22k 5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R56	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R57	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R59	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R60	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R61	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R62	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R63	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R64	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R65	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R66	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R67	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R68	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R69	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R70	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R71	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R72	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R73	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R74	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R75	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R76	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R77	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R78	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R79	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R80	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R81	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R82	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R83	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R84	1-216-851-11	s METAL, CHIP 330k 5% 1/16W
R85	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R86	1-216-827-11	s METAL, CHIP 3.3k 5% 1/16W
R87	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R89	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R90	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R91	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R92	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R93	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R95	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R96	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R97	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R98	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R99	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R101	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R102	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R103	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R104	1-218-695-11	s METAL, CHIP 1.3k 0.5% 1/16W
R105	1-218-697-11	s METAL, CHIP 1.6k 0.5% 1/16W
R107	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R108	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R109	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R110	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R111	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R112	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R113	1-218-677-11	s METAL, CHIP 240 0.5% 1/16W
R114	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R115-120	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R121	1-218-736-11	s METAL, CHIP 68k 0.5% 1/16W
R122	1-218-744-11	s METAL, CHIP 150k 0.5% 1/16W
R123	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R124	1-218-705-11	s METAL, CHIP 3.6k 0.5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R125	1-218-705-11	s METAL, CHIP 3.6k 0.5% 1/16W
R126	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R127	1-218-699-11	s METAL, CHIP 2k 0.5% 1/16W
R128	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R129	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R130	1-218-746-11	s METAL, CHIP 180k 0.5% 1/16W
R131	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R132	1-216-810-11	s METAL, CHIP 120 5% 1/16W
R133	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R134	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R135	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R136	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R137	1-218-723-11	s METAL, CHIP 20k 0.50% 1/16W
R138	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R139	1-218-723-11	s METAL, CHIP 20k 0.50% 1/16W
R140	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R141	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R142	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R143	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R144	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R145	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R146	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R147	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R149	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R150	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R151	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R156-163	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R165	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R166	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R167	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R168	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R171	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R172	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R173	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R174	1-218-670-11	s METAL, CHIP 120 0.5% 1/16W
R175	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R201	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R202	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R203	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R204	1-218-695-11	s METAL, CHIP 1.3k 0.5% 1/16W
R205	1-218-697-11	s METAL, CHIP 1.6k 0.5% 1/16W
R207	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R208	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R209	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R210	1-218-740-11	s METAL, CHIP 100k 0.5% 1/16W
R211	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R212	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R213	1-218-677-11	s METAL, CHIP 240 0.5% 1/16W
R214	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R215-220	1-218-708-11	s METAL, CHIP 4.7k 0.5% 1/16W
R221	1-218-736-11	s METAL, CHIP 68k 0.5% 1/16W
R222	1-218-744-11	s METAL, CHIP 150k 0.5% 1/16W
R223	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R224	1-218-705-11	s METAL, CHIP 3.6k 0.5% 1/16W
R225	1-218-705-11	s METAL, CHIP 3.6k 0.5% 1/16W
R226	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R227	1-218-699-11	s METAL, CHIP 2k 0.5% 1/16W
R228	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R229	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R230	1-218-746-11	s METAL, CHIP 180k 0.5% 1/16W
R231	1-216-801-11	s METAL, CHIP 22 5% 1/16W
R232	1-216-810-11	s METAL, CHIP 120 5% 1/16W
R233	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R234	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R235	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R236	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R237	1-218-723-11	s METAL, CHIP 20k 0.50% 1/16W
R238	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R239	1-218-723-11	s METAL, CHIP 20k 0.50% 1/16W
R240	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R241	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R242	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R243	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R244	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R245	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R246	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R249	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R250	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R251	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R256-263	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R265	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R266	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R267	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R268	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R271	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R272	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R273	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R274	1-218-670-11	s METAL, CHIP 120 0.5% 1/16W
R275	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R301	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R302	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R303	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R304	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R305	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R306	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R308	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R309	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R311	1-218-720-11	s METAL, CHIP 15k 0.5% 1/16W
R312	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R313	1-216-836-11	s METAL, CHIP 18k 5% 1/16W
R314	1-216-836-11	s METAL, CHIP 18k 5% 1/16W
R315	1-218-772-11	s METAL, CHIP 680k 0.5% 1/10W
R316	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R317	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R319	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R320	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R401	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R402	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R403	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R405	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R406	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R408	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R409	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R411	1-218-720-11	s METAL, CHIP 15k 0.5% 1/16W
R412	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R413	1-216-836-11	s METAL, CHIP 18k 5% 1/16W
R414	1-216-836-11	s METAL, CHIP 18k 5% 1/16W
R415	1-218-772-11	s METAL, CHIP 680k 0.5% 1/10W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R416	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R417	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R419	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R420	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R501	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R502	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R503	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R504	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R505	1-218-776-11	s METAL, CHIP 1M 0.5% 1/10W
R506	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R507	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R508	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R509	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R510	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R511	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R512	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R513	1-218-697-11	s METAL, CHIP 1.6k 0.5% 1/16W
R514	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R515	1-218-776-11	s METAL, CHIP 1M 0.5% 1/10W
R516	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R517	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R518	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R519	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R550	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R551	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R552	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R554	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R555	1-218-698-11	s METAL, CHIP 1.8k 0.50% 1/16W
R556	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R557	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R558	1-216-295-91	s RES, CHIP 0
R559	1-216-295-91	s RES, CHIP 0
R560	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R561	1-216-295-91	s RES, CHIP 0
R562	1-216-295-91	s RES, CHIP 0
R563	1-218-868-11	s METAL, CHIP 7.5k 0.5% 1/16W
R564	1-216-295-91	s RES, CHIP 0
R565	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R566	1-218-870-11	s METAL, CHIP 9.1k 0.5% 1/16W
R567	1-216-295-91	s RES, CHIP 0
R568	1-216-295-91	s RES, CHIP 0
R579	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R601	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R602	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R603	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R604	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R605	1-218-776-11	s METAL, CHIP 1M 0.5% 1/10W
R606	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R607	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R608	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R609	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R610	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R611	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R612	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R613	1-218-697-11	s METAL, CHIP 1.6k 0.5% 1/16W
R614	1-218-844-11	s METAL, CHIP 750 0.5% 1/16W
R615	1-218-776-11	s METAL, CHIP 1M 0.5% 1/10W
R616	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R617	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R618	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R619	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R651	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R652	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R653	1-218-743-11	s METAL, CHIP 130k 0.5% 1/16W
R654	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R655	1-218-698-11	s METAL, CHIP 1.8k 0.50% 1/16W
R656	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R657	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R658	1-216-295-91	s RES, CHIP 0
R659	1-216-295-91	s RES, CHIP 0
R660	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R661	1-216-295-91	s RES, CHIP 0
R662	1-216-295-91	s RES, CHIP 0
R663	1-218-868-11	s METAL, CHIP 7.5k 0.5% 1/16W
R664	1-216-295-91	s RES, CHIP 0
R665	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R666	1-218-870-11	s METAL, CHIP 9.1k 0.5% 1/16W
R667	1-216-295-91	s RES, CHIP 0
R668	1-216-295-91	s RES, CHIP 0
R669	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R702-709	1-218-867-11	s METAL, CHIP 6.8k 0.5% 1/16W
R710	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R711	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R712	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R713	1-218-708-11	s METAL, CHIP 4.7k 0.5% 1/16W
R714	1-218-708-11	s METAL, CHIP 4.7k 0.5% 1/16W
R716	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R717	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R718	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R719	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R720	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R721	1-218-829-11	s METAL, CHIP 180 0.5% 1/16W
R723	1-211-977-11	s METAL, CHIP 22 0.5% 1/16W
R724	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R725	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R726	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R727	1-216-847-11	s METAL, CHIP 150k 5% 1/16W
R728	1-216-854-11	s METAL, CHIP 560k 5% 1/16W
R729	1-218-833-11	s METAL, CHIP 270 0.5% 1/16W
R730	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R731	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R732	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R733	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R734	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R735	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R736	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R737	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R738	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R739	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R740	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R741	1-218-868-11	s METAL, CHIP 7.5k 0.5% 1/16W
R742	1-218-672-11	s METAL, CHIP 150 0.5% 1/16W
R743	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R744	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R745	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R746	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R747	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R748	1-216-833-11	s METAL, CHIP 10k 5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R749	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R750	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R751	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R752	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R753	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R754	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R756	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R775	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R776	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R777	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R778	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R779	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R780	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R781	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R782	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R783	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R785	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R788	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R789	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R790	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R792	1-216-295-91	s RES, CHIP 0
R794	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R797	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R799	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R801	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R804	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R805	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R806	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R807	1-216-861-11	s METAL, CHIP 2.2M 5% 1/16W
R808	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R809	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R810	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R811	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R812	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R813	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R814	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R815	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R816	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R817	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R818	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R819	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R820	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R821	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R822	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R823	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R824	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R825	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R826	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R827	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R828	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R829	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R830	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R831	1-218-727-11	s METAL, CHIP 30k 0.50% 1/16W
R832	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R833	1-218-858-11	s METAL, CHIP 3k 0.5% 1/16W
R834	1-211-990-11	s METAL, CHIP 75 0.5% 1/16W
R835	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R836	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R837	1-216-835-11	s METAL, CHIP 15k 5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R838	1-216-849-11 s	METAL, CHIP 220k 5% 1/16W
R839	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R840	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R841	1-216-849-11 s	METAL, CHIP 220k 5% 1/16W
R842	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R843	1-216-839-11 s	METAL, CHIP 33k 5% 1/16W
R844	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R845	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R846	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R848	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R849	1-220-158-91 s	METAL, CHIP 3.6k 5% 1/16W
R851	1-216-837-11 s	METAL, CHIP 22k 5% 1/16W
R852	1-216-861-11 s	METAL, CHIP 2.2M 5% 1/16W
R853-864	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R865-875	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R876-880	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R881	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R882	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R883	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R884	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R885	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R886-890	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R891	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R893	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R897	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R898	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R899	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R901	1-216-826-11 s	METAL, CHIP 2.7k 5% 1/16W
R902	1-216-826-11 s	METAL, CHIP 2.7k 5% 1/16W
R903	1-216-826-11 s	METAL, CHIP 2.7k 5% 1/16W
R904	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R905	1-216-826-11 s	METAL, CHIP 2.7k 5% 1/16W
R906	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R907	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R908	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R909	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R911	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R912	1-216-841-11 s	METAL, CHIP 47k 5% 1/16W
R913	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R914	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R915	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R916	1-216-855-11 s	METAL, CHIP 680k 5% 1/16W
R917	1-216-839-11 s	METAL, CHIP 33k 5% 1/16W
R918	1-216-852-11 s	METAL, CHIP 390k 5% 1/16W
R919	1-216-855-11 s	METAL, CHIP 680k 5% 1/16W
R920	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R921	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R922	1-216-861-11 s	METAL, CHIP 2.2M 5% 1/16W
R923	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R924	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R925	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R926	1-216-861-11 s	METAL, CHIP 2.2M 5% 1/16W
R927	1-216-843-11 s	METAL, CHIP 68k 5% 1/16W
R928	1-216-851-11 s	METAL, CHIP 330k 5% 1/16W
R929	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R930	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R931	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R932	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R933	1-216-838-11 s	METAL, CHIP 27k 5% 1/16W

## (TC-86C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R934	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R935	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R991	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
RV101	1-230-337-11 s	RES, VAR CARBON 10k
RV102	1-238-087-11 s	RES, ADJ METAL 1k
RV201	1-230-337-11 s	RES, VAR CARBON 10k
RV202	1-238-087-11 s	RES, ADJ METAL 1k
RV302	1-238-090-11 s	RES, ADJ METAL 10k
RV402	1-238-090-11 s	RES, ADJ METAL 10k
RV701	1-238-094-11 s	RES, ADJ METAL 220k
RV702	1-230-337-11 s	RES, VAR CARBON 10k
RV703	1-230-337-11 s	RES, VAR CARBON 10k
S1	1-572-855-11 s	SWITCH, SLIDE
S2	1-572-855-11 s	SWITCH, SLIDE
S3	1-570-910-21 s	SWITCH, PUSH
S4	1-570-910-21 s	SWITCH, PUSH
S5	1-570-910-21 s	SWITCH, PUSH
S6	1-572-855-11 s	SWITCH, SLIDE
S7	1-570-910-21 s	SWITCH, PUSH
S8	1-572-272-11 s	SWITCH, SLIDE
S11	1-570-910-21 s	SWITCH, PUSH
S13	1-572-272-11 s	SWITCH, SLIDE
S101	1-572-272-11 s	SWITCH, SLIDE
S102	1-572-342-11 s	SWITCH, SLIDE
S103	1-572-272-11 s	SWITCH, SLIDE
S201	1-572-272-11 s	SWITCH, SLIDE
S202	1-572-342-11 s	SWITCH, SLIDE
S203	1-572-272-11 s	SWITCH, SLIDE
S550	1-571-506-41 s	SWITCH, SLIDE
S701	1-570-096-11 s	SWITCH, SLIDE
X1	1-579-843-11 s	CRYSTAL 4.194304MHz
X2	1-527-997-21 s	CRYSTAL 32.768kHz
X3	1-579-843-11 s	CRYSTAL 4.194304MHz
X802	1-760-429-11 s	CRYSTAL 14.50MHz



## VO-46C BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8310-457-A	o MOUNTED CIRCUIT BOARD, VO-46C
C100	1-126-206-11	s ELECT 100uF 20% 6.3V
C103	1-126-205-11	s ELECT 47uF 20% 6.3V
C104	1-162-922-11	s CERAMIC, CHIP 39pF 5% 50V
C105	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C106	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C107	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C108	1-126-206-11	s ELECT 100uF 20% 6.3V
C109	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C110	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C111	1-162-967-11	s CERAMIC, CHIP 3300pF 10% 50V
C112	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C114	1-104-923-11	s MICA, CHIP 180pF 0.25% 50V
C115	1-162-910-11	s CERAMIC, CHIP 5pF 50V
C117	1-162-905-11	s CERAMIC, CHIP 1pF 50V
C118	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C119	1-135-167-21	s TANTALUM, CHIP 68uF 10% 6.3V
C120	1-135-157-21	s TANTALUM, CHIP 10uF 10% 6.3V
C121	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C122	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C123	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C124	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C125	1-126-206-11	s ELECT 100uF 20% 6.3V
C126	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C127	1-164-456-11	s CERAMIC, CHIP 24pF 5% 50V
C128	1-164-218-11	s CERAMIC, CHIP 180pF 5% 50V
C129	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C130	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C131	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C132	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C133	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C134	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C135	1-126-205-11	s ELECT 47uF 20% 6.3V
C136	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C137	1-126-205-11	s ELECT 47uF 20% 6.3V
C140	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C141	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C142	1-135-157-21	s TANTALUM, CHIP 10uF 10% 6.3V
C144	1-126-205-11	s ELECT 47uF 20% 6.3V
C145	1-126-205-11	s ELECT 47uF 20% 6.3V
C146	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C147	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C200	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C201	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C202	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C203	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C204	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C205	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C206	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C208	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C209	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C210	1-126-206-11	s ELECT 100uF 20% 6.3V
C211	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C212	1-126-206-11	s ELECT 100uF 20% 6.3V
C251	1-126-205-11	s ELECT 47uF 20% 6.3V
C252	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C253	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C254	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP Description
C256	1-162-920-11	s CERAMIC, CHIP 27pF 5% 50V
C257	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C258	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C300	1-126-205-11	s ELECT 47uF 20% 6.3V
C301	1-126-205-11	s ELECT 47uF 20% 6.3V
C302	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C303	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C304	1-162-920-11	s CERAMIC, CHIP 27pF 5% 50V
C305	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C306	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C307	1-126-205-11	s ELECT 47uF 20% 6.3V
C308	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C309	1-162-916-11	s CERAMIC, CHIP 12pF 5% 50V
C313	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C315	1-126-205-11	s ELECT 47uF 20% 6.3V
C350	1-126-205-11	s ELECT 47uF 20% 6.3V
C351	1-126-205-11	s ELECT 47uF 20% 6.3V
C352	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C353	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C354	1-162-920-11	s CERAMIC, CHIP 27pF 5% 50V
C355	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C356	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C357	1-126-205-11	s ELECT 47uF 20% 6.3V
C358	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C359	1-162-916-11	s CERAMIC, CHIP 12pF 5% 50V
C363	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C365	1-126-205-11	s ELECT 47uF 20% 6.3V
C401	1-126-205-11	s ELECT 47uF 20% 6.3V
C402	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C403	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C404	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C405	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C406	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C407	1-126-205-11	s ELECT 47uF 20% 6.3V
C408	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C409	1-135-157-21	s TANTALUM, CHIP 10uF 10% 6.3V
C410	1-162-959-11	s CERAMIC, CHIP 330pF 5% 50V
C411	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C412	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C413	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C414	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C415	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C416	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C417	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C418	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C419	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C420	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C421	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C422	1-126-205-11	s ELECT 47uF 20% 6.3V
C423	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C424	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C425	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C427	1-126-205-11	s ELECT 47uF 20% 6.3V
C452	1-126-205-11	s ELECT 47uF 20% 6.3V
C453	1-126-205-11	s ELECT 47uF 20% 6.3V
C454	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C455	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C456	1-126-205-11	s ELECT 47uF 20% 6.3V
C457	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V

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Ref. No. or Q'ty	Part No.	SP Description
C458	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C459	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C460	1-126-205-11	s ELECT 47uF 20% 6.3V
C461-468	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C469	1-126-205-11	s ELECT 47uF 20% 6.3V
C470	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C471	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C500	1-126-206-11	s ELECT 100uF 20% 6.3V
C501	1-126-206-11	s ELECT 100uF 20% 6.3V
C502	1-162-911-11	s CERAMIC, CHIP 6pF 50V
C503	1-162-911-11	s CERAMIC, CHIP 6pF 50V
C504	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C505	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C506	1-126-206-11	s ELECT 100uF 20% 6.3V
C507	1-162-967-11	s CERAMIC, CHIP 3300pF 10% 50V
C508	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C509	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C510	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C512	1-104-923-11	s MICA, CHIP 180pF 0.25% 50V
C513	1-162-905-11	s CERAMIC, CHIP 1pF 50V
C515	1-135-167-21	s TANTALUM, CHIP 68uF 10% 6.3V
C516	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C517	1-162-925-11	s CERAMIC, CHIP 68pF 5% 50V
C518	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C519	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C520	1-135-157-21	s TANTALUM, CHIP 10uF 10% 6.3V
C521	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C522	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C523	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C524	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C525	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C526	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C527	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C528	1-126-206-11	s ELECT 100uF 20% 6.3V
C529	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C530	1-162-918-11	s CERAMIC, CHIP 18pF 5% 50V
C531	1-164-386-11	s CERAMIC, CHIP 200pF 5% 50V
C600	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C601	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C603	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C604	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C605	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C606	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C607	1-164-473-11	s CERAMIC, CHIP 820pF 5% 50V
C608	1-164-473-11	s CERAMIC, CHIP 820pF 5% 50V
C609	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C610	1-162-919-11	s CERAMIC, CHIP 22pF 5% 50V
C611	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C612	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C613	1-126-206-11	s ELECT 100uF 20% 6.3V
C614	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C615	1-126-206-11	s ELECT 100uF 20% 6.3V
C650	1-126-205-11	s ELECT 47uF 20% 6.3V
C651	1-126-205-11	s ELECT 47uF 20% 6.3V
C652	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C653	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C654	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C655	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C656	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C657	1-164-315-11	s CERAMIC, CHIP 470pF 5% 50V
C658	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C659	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C660	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C661	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C662	1-164-217-11	s CERAMIC, CHIP 150pF 5% 50V
C663	1-164-217-11	s CERAMIC, CHIP 150pF 5% 50V
C664	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C700	1-126-204-11	s ELECT 47uF 20% 16V
C701	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C702	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C704	1-162-920-11	s CERAMIC, CHIP 27pF 5% 50V
C705	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C706	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C707	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C708	1-162-916-11	s CERAMIC, CHIP 12pF 5% 50V
C709	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C710	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C711	1-126-205-11	s ELECT 47uF 20% 6.3V
C712	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C713	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C715	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C716	1-164-357-11	s CERAMIC, CHIP 1000pF 5% 50V
C717	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C718	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C719	1-162-966-11	s CERAMIC, CHIP 0.0022uF 10% 50V
C724	1-126-205-11	s ELECT 47uF 20% 6.3V
C725	1-126-205-11	s ELECT 47uF 20% 6.3V
C750	1-126-204-11	s ELECT 47uF 20% 16V
C751	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C752	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C753	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C755	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C756	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C757	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C758	1-162-916-11	s CERAMIC, CHIP 12pF 5% 50V
C759	1-162-921-11	s CERAMIC, CHIP 33pF 5% 50V
C760	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C761	1-126-205-11	s ELECT 47uF 20% 6.3V
C762	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C763	1-164-156-11	s CERAMIC, CHIP 0.1uF 25V
C764	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C800	1-126-206-11	s ELECT 100uF 20% 6.3V
C801	1-162-957-11	s CERAMIC, CHIP 220pF 5% 50V
C802	1-162-918-11	s CERAMIC, CHIP 18pF 5% 50V
C803	1-162-923-11	s CERAMIC, CHIP 47pF 5% 50V
C804	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C805	1-162-917-11	s CERAMIC, CHIP 15pF 5% 50V
C806	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C807	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C808	1-135-155-21	s TANTALUM, CHIP 4.7uF 10% 16V
C809	1-165-176-11	s CERAMIC, CHIP 0.047uF 10% 16V
C810	1-164-217-11	s CERAMIC, CHIP 150pF 5% 50V
C811	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C812	1-162-915-11	s CERAMIC, CHIP 10pF 50V
C813	1-162-927-11	s CERAMIC, CHIP 100pF 5% 50V
C814	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C815	1-135-177-21	s TANTALUM, CHIP 1uF 10% 25V
C816	1-162-959-11	s CERAMIC, CHIP 330pF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C817	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C818	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C819	1-164-668-11 s	CERAMIC, CHIP 510pF 5% 50V
C820	1-164-217-11 s	CERAMIC, CHIP 150pF 5% 50V
C821	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C822	1-164-156-11 s	CERAMIC, CHIP 0.1uF 25V
C823	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C824	1-162-927-11 s	CERAMIC, CHIP 100pF 5% 50V
C825	1-164-217-11 s	CERAMIC, CHIP 150pF 5% 50V
C826	1-162-957-11 s	CERAMIC, CHIP 220pF 5% 50V
C827	1-162-920-11 s	CERAMIC, CHIP 27pF 5% 50V
C828	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C829	1-164-004-11 s	CERAMIC, CHIP 0.1uF 10% 25V
C830	1-162-917-11 s	CERAMIC, CHIP 15pF 5% 50V
C833	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C834	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C835	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C850	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C851	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C852	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C853	1-162-919-11 s	CERAMIC, CHIP 22pF 5% 50V
C854	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C856	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C857	1-162-970-11 s	CERAMIC, CHIP 0.01uF 10% 25V
C858	1-162-959-11 s	CERAMIC, CHIP 330pF 5% 50V
C859	1-164-357-11 s	CERAMIC, CHIP 1000pF 5% 50V
C860	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C861	1-126-205-11 s	ELECT 47uF 20% 6.3V
C862	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C901	1-126-206-11 s	ELECT 100uF 20% 6.3V
C902	1-126-206-11 s	ELECT 100uF 20% 6.3V
C903	1-126-204-11 s	ELECT 47uF 20% 16V
C904	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C905	1-126-204-11 s	ELECT 47uF 20% 16V
C906	1-164-227-11 s	CERAMIC, CHIP 0.022uF 10% 25V
CN1	1-568-801-11 s	CONNECTOR, FPC (ZIF) 24P
CN2	1-566-526-11 s	CONNECTOR, FPC (ZIF) 10P
CN3	1-564-005-11 o	CONNECTOR 6P, MALE
CN4	1-506-472-11 s	CONNECTOR 7P, MALE
CN5	1-564-001-11 o	CONNECTOR 2P, MALE
CN6	1-506-467-11 s	CONNECTOR 2P, MALE
CV200	1-141-345-11 s	CAP, TRIMMER 40pF
CV201	1-141-345-11 s	CAP, TRIMMER 40pF
CV202	1-141-345-11 s	CAP, TRIMMER 40pF
CV203	1-141-345-11 s	CAP, TRIMMER 40pF
CV600	1-141-322-11 s	CAP, TRIMMER, CHIP 20pF
CV601	1-141-322-11 s	CAP, TRIMMER, CHIP 20pF
CV602	1-141-322-11 s	CAP, TRIMMER, CHIP 20pF
CV603	1-141-322-11 s	CAP, TRIMMER, CHIP 20pF
D100	8-719-123-85 s	DIODE 1SS304
D400	8-719-821-39 s	DIODE 1SV160
D402	8-719-941-23 s	DIODE DA204U
D800	8-719-123-85 s	DIODE 1SS304
D801	8-719-123-85 s	DIODE 1SS304
D850	8-719-123-85 s	DIODE 1SS304
D851	8-719-123-85 s	DIODE 1SS304
D901	8-719-123-82 s	DIODE 1SS303-T1
D902	8-719-123-85 s	DIODE 1SS304

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Ref. No. or Q'ty	Part No.	SP Description
FL300	1-239-313-11 s	FILTER, LOW-PASS 2MHz
FL350	1-239-313-11 s	FILTER, LOW-PASS 2MHz
FL500	1-239-314-11 s	FILTER, LOW-PASS
IC100	8-752-036-77 s	IC CXA1179N
IC101	8-759-300-71 s	IC HD14053BFP
IC251	8-752-052-76 s	IC CXA1480Q
IC400	8-752-356-84 s	IC CXD2215AQ
IC401	8-759-239-58 s	IC TC74HC221AF
IC402	8-759-008-67 s	IC MC14066BF
IC403	8-759-030-16 s	IC MC34182M
IC404	8-759-100-94 s	IC UPC358G2
IC405	8-759-243-19 s	IC TC7SU04F
IC406	8-759-243-19 s	IC TC7SU04F
IC407	8-759-239-58 s	IC TC74HC221AF
IC408	8-759-239-58 s	IC TC74HC221AF
IC409	8-759-243-19 s	IC TC7SU04F
IC410	8-759-987-27 s	IC LM1881M
IC411	8-759-209-97 s	IC TC4S81F
IC450	8-752-334-55 s	IC CXD1175M
IC451	8-752-334-55 s	IC CXD1175M
IC452	8-752-329-28 s	IC CXD1151Q
IC453	8-752-363-43 s	IC CXD1171M-1-TH
IC500	8-752-036-77 s	IC CXA1179N
IC650	8-759-209-15 s	IC TC4SU69F
IC651	8-759-209-15 s	IC TC4SU69F
IC700	8-759-112-53 s	IC UPC1663G
IC701	8-759-112-53 s	IC UPC1663G
IC702	8-759-977-69 s	IC CXD1357Q
IC800	8-759-011-65 s	IC MC74HC4053F
IC801	8-752-002-99 s	IC CX20030
IC802	8-759-009-51 s	IC MC14538BF
IC900	8-759-209-15 s	IC TC4SU69F
IC902	8-759-209-90 s	IC TC4S71F
IC903	8-759-209-90 s	IC TC4S71F
IC904	8-759-300-71 s	IC HD14053BFP
IC905	8-759-512-51 s	IC RH5RE50AA
IC906	8-759-209-15 s	IC TC4SU69F
L100	1-412-062-11 s	INDUCTOR, CHIP 47uH
L103	1-410-383-31 s	INDUCTOR, CHIP 15uH
L104	1-412-062-11 s	INDUCTOR, CHIP 47uH
L105	1-410-391-11 s	INDUCTOR, CHIP 68uH
L106	1-410-389-31 s	INDUCTOR, CHIP 47uH
L107	1-410-393-11 s	INDUCTOR, CHIP 100uH
L108	1-410-393-11 s	INDUCTOR, CHIP 100uH
L109	1-410-658-31 s	INDUCTOR, CHIP 220uH
L200	1-410-393-11 s	INDUCTOR, CHIP 100uH
L201	1-410-393-11 s	INDUCTOR, CHIP 100uH
L251	1-412-062-11 s	INDUCTOR, CHIP 47uH
L300	1-410-393-11 s	INDUCTOR, CHIP 100uH
L301	1-410-393-11 s	INDUCTOR, CHIP 100uH
L302	1-410-377-31 s	INDUCTOR, CHIP 4.7uH
L350	1-410-393-11 s	INDUCTOR, CHIP 100uH
L351	1-410-393-11 s	INDUCTOR, CHIP 100uH
L352	1-410-377-31 s	INDUCTOR, CHIP 4.7uH
L400	1-410-393-11 s	INDUCTOR, CHIP 100uH
L401	1-410-393-11 s	INDUCTOR, CHIP 100uH
L402	1-410-393-11 s	INDUCTOR, CHIP 100uH

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Ref. No. or Q'ty	Part No.	SP Description
L450	1-410-393-11 s	INDUCTOR, CHIP 100uH
L451	1-410-393-11 s	INDUCTOR, CHIP 100uH
L452	1-410-393-11 s	INDUCTOR, CHIP 100uH
L453	1-410-393-11 s	INDUCTOR, CHIP 100uH
L500	1-412-062-11 s	INDUCTOR, CHIP 47uH
L501	1-410-393-11 s	INDUCTOR, CHIP 100uH
L502	1-410-389-31 s	INDUCTOR, CHIP 47uH
L503	1-412-062-11 s	INDUCTOR, CHIP 47uH
L504	1-410-393-11 s	INDUCTOR, CHIP 100uH
L600	1-410-658-31 s	INDUCTOR, CHIP 220uH
L601	1-410-393-11 s	INDUCTOR, CHIP 100uH
L602	1-410-393-11 s	INDUCTOR, CHIP 100uH
L650	1-410-393-11 s	INDUCTOR, CHIP 100uH
L651	1-410-393-11 s	INDUCTOR, CHIP 100uH
L652	1-412-282-41 s	INDUCTOR, CHIP 470uH
L653	1-412-282-41 s	INDUCTOR, CHIP 470uH
L700	1-410-393-11 s	INDUCTOR, CHIP 100uH
L701	1-410-379-31 s	INDUCTOR, CHIP 6.8uH
L702	1-410-393-11 s	INDUCTOR, CHIP 100uH
L750	1-410-393-11 s	INDUCTOR, CHIP 100uH
L751	1-410-379-31 s	INDUCTOR, CHIP 6.8uH
L752	1-410-393-11 s	INDUCTOR, CHIP 100uH
L800	1-410-393-11 s	INDUCTOR, CHIP 100uH
L801	1-410-393-11 s	INDUCTOR, CHIP 100uH
L802	1-410-382-31 s	INDUCTOR, CHIP 12uH
L803	1-412-279-31 s	INDUCTOR, CHIP 270uH
L850	1-410-393-11 s	INDUCTOR, CHIP 100uH
L851	1-410-382-31 s	INDUCTOR, CHIP 12uH
LV400	1-409-983-21 s	COIL, VAR, CHIP 5.6uH
Q101	8-729-117-32 s	TRANSISTOR 2SC4177
Q102	8-729-905-18 s	TRANSISTOR DTC144EU
Q103	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q104	8-729-117-32 s	TRANSISTOR 2SC4177
Q105	8-729-117-32 s	TRANSISTOR 2SC4177
Q106	8-729-117-32 s	TRANSISTOR 2SC4177
Q107	8-729-117-32 s	TRANSISTOR 2SC4177
Q108	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q109	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q110	8-729-117-32 s	TRANSISTOR 2SC4177
Q111	8-729-117-32 s	TRANSISTOR 2SC4177
Q113	8-729-117-32 s	TRANSISTOR 2SC4177
Q114	8-729-117-32 s	TRANSISTOR 2SC4177
Q115	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q116	8-729-117-32 s	TRANSISTOR 2SC4177
Q117	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q200	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q201	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q202	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q203	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q204	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q205	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q206	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q207	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q208	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q209	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q210	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q211	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q212	8-729-117-73 s	TRANSISTOR 2SC4178-F14

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Ref. No. or Q'ty	Part No.	SP Description
Q213	8-729-905-12 s	TRANSISTOR DTA144EU
Q214	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q215	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q216	8-729-117-32 s	TRANSISTOR 2SC4177
Q217	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q218	8-729-117-32 s	TRANSISTOR 2SC4177
Q219	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q300	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q301	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q302	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q303	8-729-117-32 s	TRANSISTOR 2SC4177
Q304	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q305	8-729-904-41 s	TRANSISTOR FMY3
Q306	8-729-117-32 s	TRANSISTOR 2SC4177
Q309	8-729-117-32 s	TRANSISTOR 2SC4177
Q350	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q351	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q352	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q353	8-729-117-32 s	TRANSISTOR 2SC4177
Q354	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q355	8-729-904-41 s	TRANSISTOR FMY3
Q356	8-729-117-32 s	TRANSISTOR 2SC4177
Q359	8-729-117-32 s	TRANSISTOR 2SC4177
Q400	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q401	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q402	8-729-117-32 s	TRANSISTOR 2SC4177
Q500-505	8-729-117-32 s	TRANSISTOR 2SC4177
Q506	8-729-905-18 s	TRANSISTOR DTC144EU
Q507	8-729-117-32 s	TRANSISTOR 2SC4177
Q508	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q509	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q510	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q600	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q601	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q602	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q603	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q604	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q605	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q606	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q607	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q608	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q609	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q610	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q611	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q612	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q613	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q614	8-729-905-12 s	TRANSISTOR DTA144EU
Q615	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q616	8-729-117-73 s	TRANSISTOR 2SC4178-F14
Q617	8-729-117-32 s	TRANSISTOR 2SC4177
Q618	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q619	8-729-117-32 s	TRANSISTOR 2SC4177
Q620	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q650-654	8-729-117-32 s	TRANSISTOR 2SC4177
Q700	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q701	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q702	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q703	8-729-118-58 s	TRANSISTOR 2SK852-X4
Q704	8-729-117-73 s	TRANSISTOR 2SC4178-F14

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q705	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q706	8-729-117-32	s TRANSISTOR 2SC4177
Q707	8-729-326-11	s TRANSISTOR 2SC2611
Q708	8-729-905-12	s TRANSISTOR DTA144EU
Q709	8-729-326-11	s TRANSISTOR 2SC2611
Q710	8-729-326-11	s TRANSISTOR 2SC2611
Q711	8-729-905-18	s TRANSISTOR DTC144EU
Q750	8-729-118-58	s TRANSISTOR 2SK852-X4
Q751	8-729-118-58	s TRANSISTOR 2SK852-X4
Q752	8-729-118-58	s TRANSISTOR 2SK852-X4
Q753	8-729-118-58	s TRANSISTOR 2SK852-X4
Q754	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q755	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q756	8-729-117-32	s TRANSISTOR 2SC4177
Q800-804	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q805	8-729-905-12	s TRANSISTOR DTA144EU
Q806	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q807	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q808	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q809	8-729-905-18	s TRANSISTOR DTC144EU
Q810	8-729-905-12	s TRANSISTOR DTA144EU
Q811	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q812	8-729-905-18	s TRANSISTOR DTC144EU
Q813	8-729-905-12	s TRANSISTOR DTA144EU
Q814	8-729-905-18	s TRANSISTOR DTC144EU
Q815	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q850	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q851	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q852	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q853	8-729-117-73	s TRANSISTOR 2SC4178-F14
Q900	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q901	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q902	8-729-807-51	s TRANSISTOR 2SD1623-S
Q903	8-729-807-51	s TRANSISTOR 2SD1623-S
Q905	8-729-106-60	s TRANSISTOR 2SB1115A
Q906	8-729-106-60	s TRANSISTOR 2SB1115A
R102	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R103	1-218-688-11	s METAL, CHIP 680 0.50% 1/16W
R104	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R105	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R106	1-218-694-11	s METAL, CHIP 1.2k 0.5% 1/16W
R107	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R108	1-218-700-11	s METAL, CHIP 2.2k 0.5% 1/16W
R109	1-218-698-11	s METAL, CHIP 1.8k 0.50% 1/16W
R110	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R114	1-218-700-11	s METAL, CHIP 2.2k 0.5% 1/16W
R115	1-218-858-11	s METAL, CHIP 3k 0.5% 1/16W
R116	1-216-822-11	s METAL, CHIP 1.2k 5% 1/16W
R117	1-218-730-11	s METAL, CHIP 39k 0.5% 1/16W
R118	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R119	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R120	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R121	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R122	1-218-881-11	s METAL, CHIP 27k 0.5% 1/16W
R123	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R124	1-218-184-11	s METAL, CHIP 997 0.1% 1/16W
R125	1-218-922-11	s METAL, CHIP 3.26k 0.10% 1/16W
R126	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W

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Ref. No. or Q'ty	Part No.	SP Description
R127	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R128	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R129	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R130	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R131	1-218-883-11	s METAL, CHIP 33k 0.5% 1/16W
R132	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R133	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R134	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R135	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R136	1-218-679-91	s METAL, CHIP 300 0.50% 1/16W
R137	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R138	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R139	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R141	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R142	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R143	1-218-723-11	s METAL, CHIP 20k 0.50% 1/16W
R144	1-218-735-11	s METAL, CHIP 62k 0.50% 1/16W
R145	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R146	1-218-296-11	s METAL, CHIP 75k 5% 1/16W
R147	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R148	1-218-883-11	s METAL, CHIP 33k 0.5% 1/16W
R149	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R150	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R151	1-218-699-11	s METAL, CHIP 2k 0.5% 1/16W
R152	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R153	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R154	1-216-824-11	s METAL, CHIP 1.8k 5% 1/16W
R155	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R156	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R157	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R158	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R159	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R162	1-218-727-11	s METAL, CHIP 30k 0.50% 1/16W
R163	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R164	1-218-720-11	s METAL, CHIP 15k 0.5% 1/16W
R165	1-218-722-11	s METAL, CHIP 18k 0.5% 1/16W
R166	1-216-835-11	s METAL, CHIP 15k 5% 1/16W
R167	1-216-823-11	s METAL, CHIP 1.5k 5% 1/16W
R168	1-218-699-11	s METAL, CHIP 2k 0.5% 1/16W
R170	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R172	1-218-699-11	s METAL, CHIP 2k 0.5% 1/16W
R174	1-216-835-11	s METAL, CHIP 15k 5% 1/16W
R175	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R176	1-216-811-11	s METAL, CHIP 150 5% 1/16W
R177	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R179	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R180	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R183	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R184	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R185	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R186	1-218-700-11	s METAL, CHIP 2.2k 0.5% 1/16W
R189	1-218-720-11	s METAL, CHIP 15k 0.5% 1/16W
R190	1-218-858-11	s METAL, CHIP 3k 0.5% 1/16W
R191	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R193	1-218-866-11	s METAL, CHIP 6.2k 0.5% 1/16W
R194	1-218-864-11	s METAL, CHIP 5.1k 0.5% 1/16W
R195	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R196	1-218-700-11	s METAL, CHIP 2.2k 0.5% 1/16W
R198	1-216-833-11	s METAL, CHIP 10k 5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R200	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R201	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R202	1-218-833-11	s METAL, CHIP 270 0.5% 1/16W
R203	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R204	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R205	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R206	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R207	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R208	1-218-837-11	s METAL, CHIP 390 0.5% 1/16W
R209	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R210	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R211	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R212	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R213	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R214	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R215	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R216	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R217	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R218	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R219	1-218-730-11	s METAL, CHIP 39k 0.5% 1/16W
R220	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R221	1-216-823-11	s METAL, CHIP 1.5k 5% 1/16W
R222	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R223	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R224	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R225	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R226	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R227	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R228	1-216-845-11	s METAL, CHIP 100k 5% 1/16W
R229	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R230	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R231	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R232	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R234	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R235	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R236	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R237	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R238	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R239	1-216-826-11	s METAL, CHIP 2.7k 5% 1/16W
R240	1-216-826-11	s METAL, CHIP 2.7k 5% 1/16W
R241	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R242	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R243	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R244	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R245	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R246	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R247	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R250	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R251	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R252	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R253	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R254	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R255	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R256	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R257	1-218-858-11	s METAL, CHIP 3k 0.5% 1/16W
R258	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R259	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R260	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R261	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R262	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R263	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R264	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R265	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R300	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R301	1-218-695-11	s METAL, CHIP 1.3k 0.5% 1/16W
R302	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R303	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R304	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R305	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R306	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R307	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R308	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R309	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R310	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R311	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R312	1-218-870-11	s METAL, CHIP 9.1k 0.5% 1/16W
R313	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R314	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R315	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R316	1-216-835-11	s METAL, CHIP 15k 5% 1/16W
R318	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R320	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R323	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R350	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R351	1-218-695-11	s METAL, CHIP 1.3k 0.5% 1/16W
R352	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R353	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R354	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R355	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R356	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R357	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R358	1-218-701-11	s METAL, CHIP 2.4k 0.5% 1/16W
R359	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R360	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R361	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R362	1-218-870-11	s METAL, CHIP 9.1k 0.5% 1/16W
R363	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R364	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R365	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R366	1-216-835-11	s METAL, CHIP 15k 5% 1/16W
R368	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R370	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R373	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R400	1-216-835-11	s METAL, CHIP 15k 5% 1/16W
R401	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R402	1-216-838-11	s METAL, CHIP 27k 5% 1/16W
R403	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R404	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R406	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R407	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R408	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R409	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R410	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R411	1-218-710-11	s METAL, CHIP 5.6k 0.5% 1/16W
R412	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R413	1-218-874-11	s METAL, CHIP 13k 0.5% 1/16W
R414	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R415	1-218-881-11	s METAL, CHIP 27k 0.5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R416	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R418	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R419	1-218-676-11 s	METAL, CHIP 220 0.5% 1/16W
R420	1-218-733-11 s	METAL, CHIP 51k 0.50% 1/16W
R421	1-218-735-11 s	METAL, CHIP 62k 0.50% 1/16W
R422	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R423	1-218-881-11 s	METAL, CHIP 27k 0.5% 1/16W
R424	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R425	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R426	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R427	1-218-870-11 s	METAL, CHIP 9.1k 0.5% 1/16W
R428	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R429	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R431	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R450	1-218-732-11 s	METAL, CHIP 47k 0.5% 1/16W
R451	1-218-732-11 s	METAL, CHIP 47k 0.5% 1/16W
R452	1-218-702-11 s	METAL, CHIP 2.7k 0.5% 1/16W
R453	1-218-883-11 s	METAL, CHIP 33k 0.5% 1/16W
R454	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R455	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R456	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R457	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R500	1-218-676-11 s	METAL, CHIP 220 0.5% 1/16W
R501	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R502	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
R503	1-218-698-11 s	METAL, CHIP 1.8k 0.50% 1/16W
R504	1-218-710-11 s	METAL, CHIP 5.6k 0.5% 1/16W
R505	1-218-694-11 s	METAL, CHIP 1.2k 0.5% 1/16W
R506	1-218-730-11 s	METAL, CHIP 39k 0.5% 1/16W
R507	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
R508	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R509	1-218-698-11 s	METAL, CHIP 1.8k 0.50% 1/16W
R510	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R511	1-216-833-11 s	METAL, CHIP 10k 5% 1/16W
R512	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R513	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R514	1-218-704-11 s	METAL, CHIP 3.3k 0.50% 1/16W
R515	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R516	1-218-702-11 s	METAL, CHIP 2.7k 0.5% 1/16W
R517	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R519	1-218-858-11 s	METAL, CHIP 3k 0.5% 1/16W
R520	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R521	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R522	1-218-184-11 s	METAL, CHIP 997 0.1% 1/16W
R525	1-218-922-11 s	METAL, CHIP 3.26k 0.10% 1/16W
R526	1-218-699-11 s	METAL, CHIP 2k 0.5% 1/16W
R527	1-218-677-11 s	METAL, CHIP 240 0.5% 1/16W
R528	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R529	1-218-881-11 s	METAL, CHIP 27k 0.5% 1/16W
R530	1-218-722-11 s	METAL, CHIP 18k 0.5% 1/16W
R531	1-218-668-11 s	METAL, CHIP 100 0.5% 1/16W
R532	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R533	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R534	1-218-720-11 s	METAL, CHIP 15k 0.5% 1/16W
R535	1-218-883-11 s	METAL, CHIP 33k 0.5% 1/16W
R536	1-218-704-11 s	METAL, CHIP 3.3k 0.50% 1/16W
R538	1-218-702-11 s	METAL, CHIP 2.7k 0.5% 1/16W
R539	1-216-824-11 s	METAL, CHIP 1.8k 5% 1/16W
R540	1-218-851-11 s	METAL, CHIP 1.5k 0.5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R541	1-218-704-11 s	METAL, CHIP 3.3k 0.50% 1/16W
R542	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R543	1-218-864-11 s	METAL, CHIP 5.1k 0.5% 1/16W
R544	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R545	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R546	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R547	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R548	1-218-735-11 s	METAL, CHIP 62k 0.50% 1/16W
R549	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R550	1-218-296-11 s	METAL, CHIP 75k 5% 1/16W
R551	1-218-720-11 s	METAL, CHIP 15k 0.5% 1/16W
R552	1-218-727-11 s	METAL, CHIP 30k 0.50% 1/16W
R553	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R554	1-218-883-11 s	METAL, CHIP 33k 0.5% 1/16W
R555	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
R556	1-218-708-11 s	METAL, CHIP 4.7k 0.50% 1/16W
R558	1-218-720-11 s	METAL, CHIP 15k 0.5% 1/16W
R559	1-218-722-11 s	METAL, CHIP 18k 0.5% 1/16W
R560	1-218-688-11 s	METAL, CHIP 680 0.50% 1/16W
R561	1-218-684-11 s	METAL, CHIP 470 0.5% 1/16W
R562	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R563	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R564	1-218-700-11 s	METAL, CHIP 2.2k 0.5% 1/16W
R565	1-218-698-11 s	METAL, CHIP 1.8k 0.50% 1/16W
R568	1-218-676-11 s	METAL, CHIP 220 0.5% 1/16W
R574	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R575	1-216-864-11 s	METAL, CHIP 0 5% 1/16W
R600	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R601	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R603	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R604	1-216-825-11 s	METAL, CHIP 2.2k 5% 1/16W
R605	1-216-821-11 s	METAL, CHIP 1k 5% 1/16W
R606	1-218-692-11 s	METAL, CHIP 1k 0.5% 1/16W
R607	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R608	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R609	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R610	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R611	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R612	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R613	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R614	1-218-837-11 s	METAL, CHIP 390 0.5% 1/16W
R615	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R616	1-218-716-11 s	METAL, CHIP 10k 0.5% 1/16W
R617	1-218-730-11 s	METAL, CHIP 39k 0.5% 1/16W
R618	1-216-829-11 s	METAL, CHIP 4.7k 5% 1/16W
R619	1-218-841-11 s	METAL, CHIP 560 0.5% 1/16W
R620	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R621	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R622	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R623	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R624	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R625	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R626	1-216-845-11 s	METAL, CHIP 100k 5% 1/16W
R627	1-218-724-11 s	METAL, CHIP 22k 0.5% 1/16W
R628	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R629	1-216-827-11 s	METAL, CHIP 3.3k 5% 1/16W
R630	1-218-840-11 s	METAL, CHIP 510 0.5% 1/16W
R631	1-218-840-11 s	METAL, CHIP 510 0.5% 1/16W
R632	1-218-679-91 s	METAL, CHIP 300 0.50% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R633	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R634	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R635	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R636	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R637	1-216-827-11	s METAL, CHIP 3.3k 5% 1/16W
R638	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R639	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R640	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R641	1-216-826-11	s METAL, CHIP 2.7k 5% 1/16W
R642	1-216-826-11	s METAL, CHIP 2.7k 5% 1/16W
R643	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R644	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R645	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R646	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R647	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R648	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R649	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R650	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R651	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R652	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R653	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R654	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R655	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R656	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R657	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R658	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R659	1-216-822-11	s METAL, CHIP 1.2k 5% 1/16W
R660	1-216-822-11	s METAL, CHIP 1.2k 5% 1/16W
R661	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R662	1-218-736-11	s METAL, CHIP 68k 0.5% 1/16W
R663	1-218-734-11	s METAL, CHIP 56k 0.5% 1/16W
R664	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R667	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R668	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R669	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R670	1-218-694-11	s METAL, CHIP 1.2k 0.5% 1/16W
R671	1-216-864-11	s METAL, CHIP 0 5% 1/16W
R700	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R701	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R702	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R703	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R704	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R705	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R708	1-218-694-11	s METAL, CHIP 1.2k 0.5% 1/16W
R709	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R710	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R711	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R712	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R713	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R714	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R715	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R716	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R717	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R718	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R719	1-216-823-11	s METAL, CHIP 1.5k 5% 1/16W
R720	1-218-841-11	s METAL, CHIP 560 0.5% 1/16W
R721	1-218-846-11	s METAL, CHIP 910 0.5% 1/16W
R722	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R723	1-216-821-11	s METAL, CHIP 1k 5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R724	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R725	1-216-847-11	s METAL, CHIP 150k 5% 1/16W
R726	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R727	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R728	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R729	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R730	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R731	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R732	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R733	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R734	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R735	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R736	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R737	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R738	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R750	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R751	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W
R752	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R753	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R754	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R755	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R758	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R759	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R760	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R761	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R762	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R763	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R764	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R765	1-216-837-11	s METAL, CHIP 22k 5% 1/16W
R766	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R767	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R768	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R769	1-216-823-11	s METAL, CHIP 1.5k 5% 1/16W
R771	1-216-823-11	s METAL, CHIP 1.5k 5% 1/16W
R772	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R773	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R774	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R800	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R801	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R802	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R803	1-218-710-11	s METAL, CHIP 5.6k 0.5% 1/16W
R804	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R805	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R806	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R807	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R808	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R809	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R810	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R811	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R812	1-218-706-11	s METAL, CHIP 3.9k 0.50% 1/16W
R813	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R814	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R815	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R816	1-216-847-11	s METAL, CHIP 150k 5% 1/16W
R817	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R818	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R819	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R820	1-216-824-11	s METAL, CHIP 1.8k 5% 1/16W
R821	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W



## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R822	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R823	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R824	1-218-676-11	s METAL, CHIP 220 0.5% 1/16W
R825	1-218-684-11	s METAL, CHIP 470 0.5% 1/16W
R826	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R827	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R828	1-218-883-11	s METAL, CHIP 33k 0.5% 1/16W
R829	1-218-743-11	s METAL, CHIP 130k 0.5% 1/16W
R830	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R831	1-216-856-11	s METAL, CHIP 820k 5% 1/16W
R832	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R833	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R834	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R835	1-216-853-11	s METAL, CHIP 470k 5% 1/16W
R836	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R837	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R838	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R839	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R840	1-218-873-11	s METAL, CHIP 12k 0.5% 1/16W
R841	1-216-849-11	s METAL, CHIP 220k 5% 1/16W
R842	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R843	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R844	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R845	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R846	1-216-841-11	s METAL, CHIP 47k 5% 1/16W
R847	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R848	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R850	1-218-680-11	s METAL, CHIP 330 0.50% 1/16W
R851	1-218-704-11	s METAL, CHIP 3.3k 0.50% 1/16W
R852	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R853	1-218-692-11	s METAL, CHIP 1k 0.5% 1/16W
R855	1-216-820-11	s METAL, CHIP 820 5% 1/16W
R856	1-218-716-11	s METAL, CHIP 10k 0.5% 1/16W
R857	1-218-851-11	s METAL, CHIP 1.5k 0.5% 1/16W
R858	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R859	1-218-668-11	s METAL, CHIP 100 0.5% 1/16W
R860	1-216-831-11	s METAL, CHIP 6.8k 5% 1/16W
R861	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R862	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R863	1-218-708-11	s METAL, CHIP 4.7k 0.50% 1/16W
R864	1-218-724-11	s METAL, CHIP 22k 0.5% 1/16W
R900	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R901	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R902	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R903	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R904	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R905	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R906	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R907	1-218-732-11	s METAL, CHIP 47k 0.5% 1/16W
R908	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R909	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R911	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R912	1-216-825-11	s METAL, CHIP 2.2k 5% 1/16W
R914	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R915	1-218-702-11	s METAL, CHIP 2.7k 0.5% 1/16W
R916	1-216-833-11	s METAL, CHIP 10k 5% 1/16W
R917	1-216-821-11	s METAL, CHIP 1k 5% 1/16W
R918	1-216-829-11	s METAL, CHIP 4.7k 5% 1/16W

## (VO-46C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV100	1-238-086-11	s RES, ADJ METAL 470
RV102	1-238-089-11	s RES, ADJ METAL 4.7k
RV103	1-238-088-11	s RES, ADJ METAL 2.2k
RV104	1-238-088-11	s RES, ADJ METAL 2.2k
RV105	1-238-088-11	s RES, ADJ METAL 2.2k
RV200	1-238-089-11	s RES, ADJ METAL 4.7k
RV201	1-238-089-11	s RES, ADJ METAL 4.7k
RV202	1-238-089-11	s RES, ADJ METAL 4.7k
RV203	1-238-089-11	s RES, ADJ METAL 4.7k
RV251	1-238-091-11	s RES, ADJ METAL 22k
RV300	1-238-087-11	s RES, ADJ METAL 1k
RV301	1-238-087-11	s RES, ADJ METAL 1k
RV302	1-238-088-11	s RES, ADJ METAL 2.2k
RV351	1-238-087-11	s RES, ADJ METAL 1k
RV352	1-238-088-11	s RES, ADJ METAL 2.2k
RV401	1-238-090-11	s RES, ADJ METAL 10k
RV450	1-238-091-11	s RES, ADJ METAL 22k
RV500	1-238-088-11	s RES, ADJ METAL 2.2k
RV502	1-238-089-11	s RES, ADJ METAL 4.7k
RV505	1-238-089-11	s RES, ADJ METAL 4.7k
RV506	1-238-088-11	s RES, ADJ METAL 2.2k
RV507	1-238-088-11	s RES, ADJ METAL 2.2k
RV600	1-238-089-11	s RES, ADJ METAL 4.7k
RV601	1-238-089-11	s RES, ADJ METAL 4.7k
RV602	1-238-089-11	s RES, ADJ METAL 4.7k
RV603	1-238-089-11	s RES, ADJ METAL 4.7k
RV700	1-238-088-11	s RES, ADJ METAL 2.2k
RV701	1-238-088-11	s RES, ADJ METAL 2.2k
RV702	1-238-088-11	s RES, ADJ METAL 2.2k
RV703	1-238-088-11	s RES, ADJ METAL 2.2k
RV750	1-238-088-11	s RES, ADJ METAL 2.2k
RV751	1-238-088-11	s RES, ADJ METAL 2.2k
RV752	1-238-088-11	s RES, ADJ METAL 2.2k
RV753	1-238-088-11	s RES, ADJ METAL 2.2k
RV850	1-223-378-11	s RES, ADJ METAL 100
S700	1-571-275-31	s SWITCH, SLIDE
SP200	1-566-388-11	s CONNECTOR 8P, MALE
SP600	1-566-388-11	s CONNECTOR 8P, MALE
SP650	1-566-388-11	s CONNECTOR 8P, MALE
SS200	1-565-413-11	o PLUG, SHORTING
SS600	1-565-413-11	o PLUG, SHORTING
SS650	1-565-413-11	o PLUG, SHORTING
TH400	1-809-308-21	s THERMISTOR, CHIP 3.3k
X400	1-760-109-21	s CRYSTAL 10.738635MHz
X650	1-579-412-11	s RESONATOR, CERAMIC 310kHz
X651	1-579-413-11	s RESONATOR, CERAMIC 540kHz

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FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8263-082-A	s HEAD DRUM ASSY, DBH-46A-R
1pc	A-8263-083-A	s UPPER DRUM ASSY, DBR-46-R
1pc	1-651-202-11	o WIRE FLEXIBLE CARD, FL-160
1pc	1-769-447-11	s CABLE, FLAT 25P
1pc	1-948-710-11	o HARNESS (TAPE TOP)
1pc	1-953-154-12	o HARNESS (TC-SW)
1pc	1-953-163-11	o HARNESS (VO-CN)
1pc	8-745-001-00	s DM-211A

to ANTON

CN222	1-695-595-21	s HOUSING 2P
3pcs	1-695-596-11	s CONTACT, MALE

to CN-935 board

CN2	1-569-200-11	o HOUSING, 7P
7pcs	1-569-193-11	o CONTACT, FEMALE

CN3	1-953-152-11	o HARNESS (SS-CN)
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to CN-983 board

CN4	1-569-618-11	o HOUSING 3P
3pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

CN5	1-561-514-00	o HOUSING, ILG 2P
2pcs	1-560-372-00	o CONTACT, ILG, FEMALE

to DR-254 board

CN601	1-569-205-11	o HOUSING, 12P
2pcs	1-569-191-11	o CONTACT, FEMALE AWG22-26
8pcs	1-569-193-11	o CONTACT, FEMALE

to KY-285 board

CN1	1-765-131-11	s CABLE, FLAT 10P
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to MB-552 board

CN25	1-561-515-00	o CONNECTOR HOUSING (3P)
3pcs	1-560-372-00	o CONTACT, ILG, FEMALE

CN23	1-561-514-00	o HOUSING, ILG 2P
2pcs	1-560-372-00	o CONTACT, ILG, FEMALE

CN24	1-561-516-00	o HOUSING, ILG 4P
4pcs	1-560-372-00	o CONTACT, ILG, FEMALE

CN29	1-561-514-00	o HOUSING, ILG 2P
2pcs	1-560-372-00	o CONTACT, ILG, FEMALE

to SS-57 board

CN307	1-765-131-11	s CABLE, FLAT 10P
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CN308	1-569-195-11	s HOUSING 2P
2pcs	1-569-193-11	o CONTACT, FEMALE

CN311	1-953-152-11	o HARNESS (SS-CN)
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to TC-86 board

CN3	1-569-619-11	o HOUSING 4P
4pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

CN101	1-569-618-11	o HOUSING 3P
3pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
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to TC-86 board

CN201	1-569-618-11	o HOUSING 3P
3pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

CN701	1-569-618-11	o HOUSING 3P
3pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

CN703	1-569-617-11	o HOUSING 2P
2pcs	1-565-977-11	s CONTACT, FEMALE AWG28-32

to VO-46 board

CN3	1-569-199-11	o HOUSING, 6P
2pcs	1-569-191-11	o CONTACT, FEMALE AWG22-26
8pcs	1-569-193-11	o CONTACT, FEMALE

CN4	1-569-200-11	o HOUSING, 7P
7pcs	1-569-193-11	o CONTACT, FEMALE

CN5	1-569-195-11	s HOUSING 2P
2pcs	1-569-191-11	o CONTACT, FEMALE AWG22-26

CN6	1-569-195-31	s HOUSING 2P
2pcs	1-569-191-11	o CONTACT, FEMALE AWG22-26

CN201	1-564-603-11	s CONNECTOR, XLR (WITH DC SW) 4P, MALE
CN202	1-509-184-51	s CONNECTOR, XLR 3P, FEMALE
CN203	1-509-184-51	s CONNECTOR, XLR 3P, FEMALE

CS201	1-810-462-11	s SENSOR, DEW CONDENSATION
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FB201	1-543-762-11	s BEAD, FERRITE
FB202	1-500-111-11	s BEAD, FERRITE

H201	8-825-560-41	s HEAD, CTL RS-253-21
H202	8-825-772-62	s HEAD, ERASE EF291-21A
H203	8-825-779-51	s HEAD, AU PS244-2103K

L201	1-543-316-21	s HEAD, SENSING (SMALL TYPE)
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M201	1-698-346-11	s MOTOR, DC (LOADING)
M202	1-698-345-11	s MOTOR, DC (CAPSTAN)

S201	1-571-367-11	s SWITCH, TOGGLE
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SP001	1-503-854-11	s SPEAKER
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#### 16-4. PACKING MATERIALS AND ACCESSORIES

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6772-374-A	s BELT ASSY, SHOULDER
1pc	A-8278-122-B	o HANDLE ASSY
(This assy includes the following parts.)		
1pc	3-679-036-01	o LID, HANDLE(2)
1pc	3-685-561-02	o HANDLE
1pc	3-685-563-01	o LID, HANDLE
4pcs	3-701-439-11	o WASHER
5pcs	7-682-548-09	s SCREW +B 3x8
1pc	3-679-069-01	s CONNECTOR COVER, SIDE
1pc	3-685-689-01	o INDIVIDUAL CARTON
1pc	3-685-690-02	o CUSHION, TOP
1pc	3-685-691-01	o CUSHION, BOTTOM
1pc	3-798-217-21	s MANUAL, INSTRUCTION (ENGLISH)
1pc	3-798-217-31	s MANUAL, INSTRUCTION (FRENCH)
1pc	3-798-217-41	s MANUAL, INSTRUCTION (GERMAN)
1pc	3-798-217-51	s MANUAL, INSTRUCTION (ITALIAN)
2pcs	7-682-560-09	s SCREW +B 4x6
2pcs	7-682-563-09	s SCREW +B 4x12

#### 16-5. OPTIONAL FIXTURES

Part No.	SP Description
J-6001-820-A	o DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	o DRUM ECCENTRICITY GAUGE (2)
J-6080-003-E	o FWD BACK TENSION MEASUREMENT CASSETTE
J-6080-029-A	o ADJUSTMENT MIRROR
J-6086-570-A	o PLATE, PARALLEL
J-6087-000-A	o DRUM ECCENTRICITY GAUGE (5)
J-6152-450-A	o WIRE CLEARANCE CHECK GAUGE
J-6321-500-A	o TAPE GUIDE ADJUSTMENT DRIVER
J-6321-880-A	o CASSETTE DUMMY COVER
J-6325-110-A	o TORQUE DRIVER BIT(FOR M1.4)
J-6325-360-B	o FLATNESS CHECK TOOL
J-6325-380-A	o TORQUE DRIVER BIT(FOR M2)
J-6325-400-A	o TORQUE DRIVER (FOR 3Kg)
J-6325-530-A	o DRUM ECCENTRICITY GAUGE (6)
J-6326-120-A	o HEXAGON BIT
J-6335-710-A	o RECORDING CURRENT ADJUSTING TOOL(EW-571)
J-6335-800-A	o DEVIATION CHECKER(EW-580)
J-6337-830-A	o CAMERA TOOL(EW-783)
7-661-018-18	o OIL
7-662-010-04	o GREASE SGL-505(20g)
7-700-736-05	o L-SHAPED HEXAGON WRENCH(d=1.5mm)
7-700-742-02	o JACK NUT SCREWDRIVER
7-732-050-20	o TENSION SCALE(50g FULL SCALE)
7-741-900-53	o WIPING CLOTH
8-960-096-51	o ALIGNMENT TAPE, CR2-1B PS(PAL)
8-960-096-91	o ALIGNMENT TAPE, CR5-1B PS(PAL)
8-960-098-44	o ALIGNMENT TAPE, CR5-2A PS(PAL)
8-960-096-86	o ALIGNMENT TAPE, CR8-1B PS(PAL)
9-911-053-00	o THICKNESS GAUGE
9-919-573-01	o CLEANING FLUID